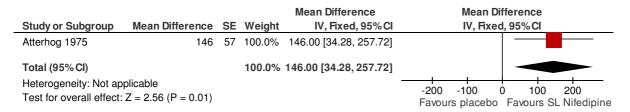
1 Sublingual nifedipine vs Placebo

1.1 Mean total work time for stepped increase in load (mins)

				Mean Difference		Mean	Differenc	e	
Study or Subgroup	Mean Difference	SE	Weight	IV, Fixed, 95% CI		IV, Fix	ed, 95%	CI	
Atterhog 1975	5.2	2.24	100.0%	5.20 [0.81, 9.59]					
Total (95% CI)			100.0%	5.20 [0.81, 9.59]					-
Heterogeneity: Not ap Test for overall effect	•				-10 Favoi	-5 urs placeb	0 Favou	5 Irs Sl	10 L Nifedipine

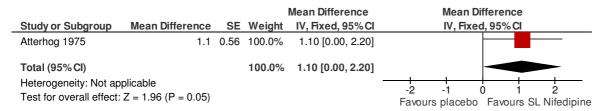
1.2 Estimated workload at breakpoint for stepped increase in load (kpm/min)



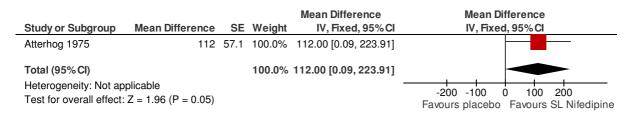
1.3 Total work for stepped increase in load (kpm)

				Mean Difference		Mean	Differ	ence	
Study or Subgroup	Mean Difference	SE	Weight	IV, Fixed, 95% CI		IV, Fo	ced, 9	5% CI	
Atterhog 1975	3,685	1,431	100.0%	3685.00 [880.29, 6489.71]					•
Total (95% CI)			100.0%	3685.00 [880.29, 6489.71]					•
Heterogeneity: Not ap Test for overall effect:	•				-500 Favo	-250 urs placet	0 oo Fa	250 vours SL	500 Nifedipine

1.4 Mean total work time for continuous increase in load (mins)



1.5 Estimated workload at breakpoint for continuous increase in load (kpm/min)



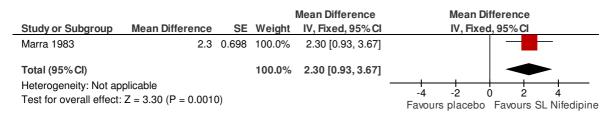
1.6 Total work for continuous increase in load (kpm)

				Mean Difference		Mear	Differenc	е	
Study or Subgroup	Mean Difference	SE	Weight	IV, Fixed, 95% CI	xed, 95% C	i .			
Atterhog 1975	1,146	379	100.0%	1146.00 [403.17, 1888.83]					
Total (95% CI)			100.0%	1146.00 [403.17, 1888.83]					
Heterogeneity: Not ap Test for overall effect:	•)			-1000 Fa	-500 vours place	0 bo Favou	500 rs SL N	1000 lifedipine

1.7 Mean work capacity at angina threshold (minutes of exercise)

				Mean Difference	Mean Difference
Study or Subgroup	Mean Difference	SE	Weight	IV, Fixed, 95% CI	IV, Fixed, 95% CI
Marra 1983	2.1	0.64	100.0%	2.10 [0.85, 3.35]	
Total (95% CI)			100.0%	2.10 [0.85, 3.35]	
Heterogeneity: Not ap Test for overall effect:)			-2 -1 0 1 2 Favours placebo Favours SL Nifedipine

1.8 Maximal work capacity at maximal exercise level (minutes of exercise)



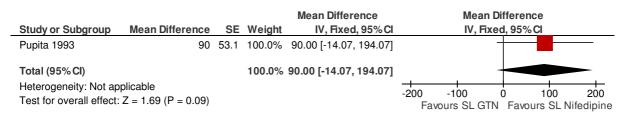
2 Sublingual nifedipine vs no treatment

2.1 Mean exercise time to 1mm ST segment depression (secs)

				Mean Difference	Mean Difference
Study or Subgroup	Mean Difference	SE	Weight	IV, Fixed, 95% CI	IV, Fixed, 95% CI
Pupita 1993	146	56.7	100.0%	146.00 [34.87, 257.13]	
Total (95% CI)			100.0%	146.00 [34.87, 257.13]	
Heterogeneity: Not ap Test for overall effect:	'				-200 -100 0 100 200 Favours no treatment Favours SL nifedipine

3 Sublingual GTN vs sublingual nifedipine

3.1 Mean exercise time to 1mm ST segment depression (secs)



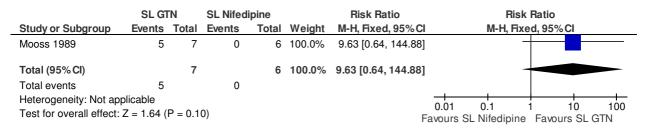
3.2 Mean pain severity at 2 minutes post treatment

	Expe	rimen	tal	Co	ontro	I		Mean Difference		Mean D	ifferend	e	
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI		IV, Fixe	d, 95%	CI	
Mooss 1989	1	1.7	7	7.3	2.1	6	100.0%	-6.30 [-8.40, -4.20]	_				
Total (95% CI)			7			6	100.0%	-6.30 [-8.40, -4.20]	4	•			
Heterogeneity: Not ap Test for overall effect:	•	(P < 0	0.00001)					-10 Favo	-5 ours SL GTN	0 Favou	5 irs SL	10 Nifedipine

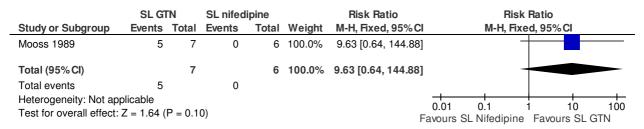
3.3 Mean pain severity at 4 minutes post treatment

	SI	L GTN	1	SL ni	ifedipi	ne		Mean Difference	Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI	IV, Fixed, 95% CI
Mooss 1989	0.4	8.0	7	6	1.7	6	100.0%	-5.60 [-7.08, -4.12]	-
Total (95% CI)			7			6	100.0%	-5.60 [-7.08, -4.12]	•
Heterogeneity: Not ap Test for overall effect:	•		0.000	01)					-4 -2 0 2 4 Favours SL GTN Favours SL Nifedipine

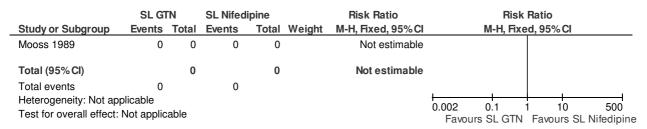
3.4 No participants with complete pain resolution at 2 minutes post treatment



3.5 No participants with complete pain resolution at 4 minutes post treatment



3.6 No participants with complete pain resolution at 2 mins after cross over therapy



1 BB vs. CCB

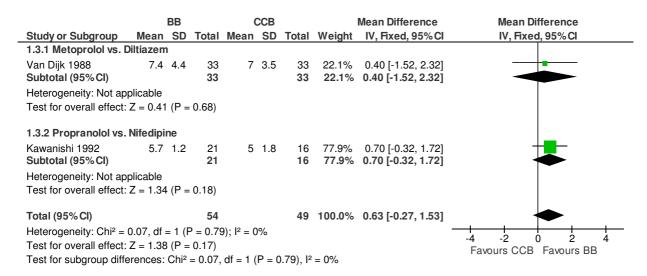
1.1 Exercise duration (min)

		BB		(CCB			Mean Difference	Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI	IV, Fixed, 95% CI
1.1.1 Metoprolol vs. D	iltiazem								
Van Dijk 1988	9.8	3.1	33	10	3.4	33	30.8%	-0.20 [-1.77, 1.37]	
Subtotal (95% CI)			33			33	30.8%	-0.20 [-1.77, 1.37]	
Heterogeneity: Not app	olicable								
Test for overall effect:	Z = 0.25	(P = 0)	0.80)						
1.1.2 Propranolol vs.	Diltiazer	n							
O'Hara 1987	6.8	3.5	34	6.5	2.3	34	38.3%	0.30 [-1.11, 1.71]	-
Subtotal (95% CI)			34			34	38.3%	0.30 [-1.11, 1.71]	
Heterogeneity: Not app	olicable								
Test for overall effect:	Z = 0.42	(P = 0)).68)						
1.1.3 Propranolol vs.	Nifedipir	ne							
Kawanishi 1992	7.2	2.65	21	7.2	2.2	16	31.0%	0.00 [-1.56, 1.56]	
Subtotal (95% CI)			21			16	31.0%	0.00 [-1.56, 1.56]	
Heterogeneity: Not app	olicable								
Test for overall effect:	Z = 0.00	(P = 1	.00)						
Total (95% CI)			88			83	100.0%	0.05 [-0.82, 0.92]	•
Heterogeneity: Chi ² = 0.22, df = 2 (P = 0.89); $I^2 = 0\%$									
Test for overall effect:		,	,						-4 -2 0 2 4 Favours CCB Favours BB
Test for subgroup diffe	rences:	Chi² =	0.22, c	lf = 2 (P	= 0.8	89), I ² =	: 0%		ravouis GGB Favouis BB

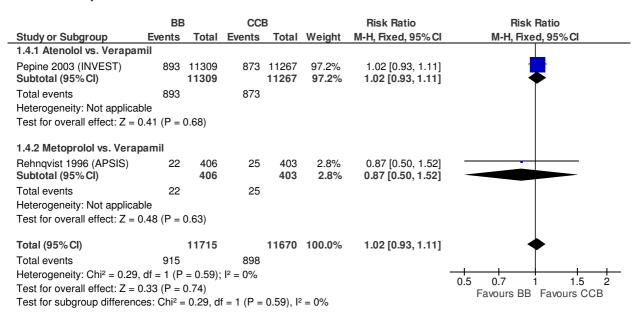
1.2 Time to 1mm ST depression (sec)

		BB			CCB			Mean Difference	Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI	IV, Fixed, 95% CI
1.2.1 Metoprolol vs. Nifed	dipine								
Savonitto 1996 (IMAGE) Subtotal (95% CI)	49	128.6	65 65	37	141.3	62 62		12.00 [-35.06, 59.06] 12.00 [-35.06, 59.06]	
Heterogeneity: Not applicate Test for overall effect: Z =		= 0.62)							
Total (95% CI)			65			62	100.0%	12.00 [-35.06, 59.06]	
Heterogeneity: Not applica Test for overall effect: Z = Test for subgroup differen	0.50 (P	,	ble					-	-50 -25 0 25 50 Favours BB Favours CCB

1.3 Time to onset of angina (min)



1.4 Total mortality



1.5 Cardiovascular death

Otrack and Oak and one	ВВ	T . 1. 1	CCI		W. L.L.	Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Iotai	Weight	M-H, Fixed, 95% Cl	M-H, Fixed, 95% Cl
1.5.1 Atenolol vs. Verapar							<u> </u>
Pepine 2003 (INVEST) Subtotal (95% CI)	431	11309 11309	431	11267 11267	94.5% 94.5 %	1.00 [0.87, 1.14] 1.00 [0.87, 1.14]	•
Total events	431		431				
Heterogeneity: Not applical	ble						
Test for overall effect: $Z = 0$	0.06 (P =	0.96)					
1.5.2 Atenolol vs. Nifedipi	ne						
Dargie1996 (TIBET)	3	226	6	232	1.3%	0.51 [0.13, 2.03]	
Subtotal (95% CI)		226		232	1.3%	0.51 [0.13, 2.03]	
Total events	3		6				
Heterogeneity: Not applical	ble						
Test for overall effect: $Z = 0$	0.95 (P =	0.34)					
1.5.3 Metoprolol vs. Verap	oamil						
Rehnqvist 1996 (APSIS)	19	406	19	403	4.2%	0.99 [0.53, 1.85]	
Subtotal (95% CI)		406		403	4.2%	0.99 [0.53, 1.85]	
Total events	19		19				
Heterogeneity: Not applical	ole						
Test for overall effect: $Z = 0$	0.02 (P =	0.98)					
Total (95% CI)		11941		11902	100.0%	0.99 [0.87, 1.12]	•
Total events	453		456				
Heterogeneity: Chi ² = 0.89,	•	0.2 0.5 1 2 5					
Test for overall effect: $Z = 0$	0.16 (P =	0.88)					Favours BB Favours CCB
Test for subgroup difference	es: Chi² =	0.89, df	= 2 (P =	0.64), I ²	? = 0%		1 avodio DD 1 avodio OOD

1.6 Non fatal MI

	ВЕ	3	CC	В		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% CI
1.6.1 Atenolol vs. Verapa	mil						
Pepine 2003 (INVEST) Subtotal (95% CI)	153	11309 11309	151	11267 11267	81.7% 81.7 %	1.01 [0.81, 1.26] 1.01 [0.81, 1.26]	*
Total events Heterogeneity: Not applica	153 able		151				
Test for overall effect: Z =		0.93)					
1.6.2 Atenolol vs. Nifedipi	ine						
Dargie1996 (TIBET) Subtotal (95% CI)	14	226 226	15	232 232	8.0% 8.0 %	0.96 [0.47, 1.94] 0.96 [0.47, 1.94]	
Total events Heterogeneity: Not applica	14		15				
Test for overall effect: Z =		0.91)					
1.6.3 Metoprolol vs. Vera	pamil						
Hjemdahl 2006 (APSIS) Subtotal (95% CI)	17	406 406	19	403 403	10.3% 10.3 %	0.89 [0.47, 1.68] 0.89 [0.47 , 1.68]	
Total events	17		19				
Heterogeneity: Not applica	able						
Test for overall effect: Z =	0.36 (P =	0.72)					
Total (95% CI)		11941		11902	100.0%	0.99 [0.81, 1.22]	•
Total events	184		185				
Heterogeneity: Chi ² = 0.15	6, df = 2 (P)	= 0.93);	$I^2 = 0\%$			-	0.5 0.7 1 1.5 2
Test for overall effect: Z =	0.07 (P =	0.94)					Favours BB Favours CCB
Test for subgroup difference	ces: Chi2 =	= 0.15, d	f = 2 (P =	0.93), 1	$^{2} = 0\%$		1 4.5415 DD 1 400415 00D

1.7 CV related hospitalisation

	BB	CCB		Risk Ratio	Risk Ratio
Study or Subgroup	Events Tot	al Events T	Total Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% CI
1.7.1 Atenolol vs. Verap	amil				
Pepine 2003 (INVEST) Subtotal (95% CI)	709 1130 1130	-	1267 100.0% 1 267 100.0 %	0.97 [0.88, 1.08] 0.97 [0.88, 1.08]	•
Total events Heterogeneity: Not applic Test for overall effect: Z =		726			
Total (95% CI)	1130	9 11	1267 100.0%	0.97 [0.88, 1.08]	•
Total events Heterogeneity: Not applic Test for overall effect: Z = Test for subgroup differen	= 0.54 (P = 0.59	,			0.5 0.7 1 1.5 2 Favours BB Favours CCB

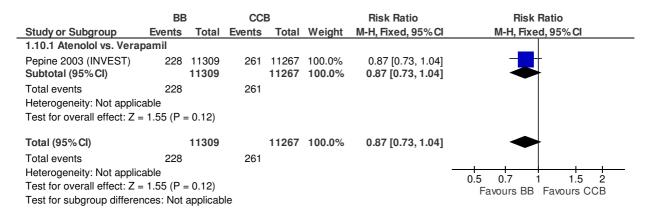
1.8 Non fatal CV events (combined)

	ВВ		CCE	3		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% Cl
1.8.1 Metoprolol vs. Vera							
Rehnqvist 1996 (APSIS) Subtotal (95% CI)	106	406 406	98	403 403	100.0% 100.0 %	1.07 [0.85, 1.36] 1.07 [0.85, 1.36]	
Total events	106	400	98	403	100.0 %	1.07 [0.05, 1.50]	
Heterogeneity: Not applica	ble						
Test for overall effect: Z =	0.59 (P =	0.56)					
Total (95% CI)		406		403	100.0%	1.07 [0.85, 1.36]	
Total events	106		98				
Total events 106 Heterogeneity: Not applicable Test for overall effect: Z = 0.59 (P = 0.56) Test for subgroup differences: Not applicable						_	0.5 0.7 1 1.5 2 Favours BB Favours CCB

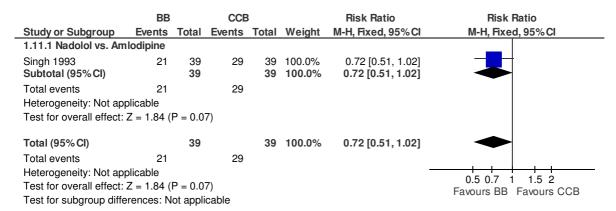
1.9 Angina episodes/week

	BB							Mean Difference	Mean Difference		
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI	IV, Fixed, 95% CI		
1.9.1 Atenolol vs. Verapa	mil								<u>L</u>		
Pepine 2003 (INVEST) Subtotal (95% CI)	0.88	1.62	11309 11309	0.77	1.31	11267 11267	99.9% 99.9 %	0.11 [0.07, 0.15] 0.11 [0.07, 0.15]	—		
Heterogeneity: Not applica	able										
Test for overall effect: Z =	5.61 (P	< 0.00	001)								
1.9.2 Metoprolol vs. Diltia	ızem										
Van Dijk 1988 Subtotal (95% CI)	2.5	3	33 33	2.5	5.2	33 33	0.0% 0.0 %	0.00 [-2.05, 2.05] 0.00 [-2.05, 2.05]			
Heterogeneity: Not applica Test for overall effect: Z =		= 1.00)								
1.9.3 Propranolol vs. Nife	dipine										
Kawanishi 1992	2	2.3	21	2.7	5.6	16	0.0%	-0.70 [-3.61, 2.21]			
Subtotal (95% CI)			21			16	0.0%	-0.70 [-3.61, 2.21]			
Heterogeneity: Not applica	able										
Test for overall effect: Z =	0.47 (P :	= 0.64)								
1.9.4 Metoprolol vs. Nifed	dipine										
Savonitto 1996 (IMAGE)	-2.01	4.72	61	-2.32	6.43	61	0.0%		<u> </u>		
Subtotal (95% CI)			61			61	0.0%	0.31 [-1.69, 2.31]			
Heterogeneity: Not applica Test for overall effect: Z =		= 0.76)								
Total (95% CI)			11424			11377	100.0%	0.11 [0.07, 0.15]			
Heterogeneity: Chi ² = 0.35	5. df = 3 (P = 0		0%		,,,,		[,			
Test for overall effect: Z =			, .	- / 0					-4 -2 0 2 4		
Test for subgroup differen	,		,	(P = 0.	95), I ²	= 0%			Favours BB Favours CCB		

1.10 Prevalance of angina



1.11 Severity of angina assessed by investigator (moderate/markedly improved)



1.12 Severity of angina assessed by patients (moderate/severe)

	ВВ		CCE	3		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% CI
1.12.1 Nadolol vs. Am	lodipine						
Singh 1993 Subtotal (95% CI)	16	40 40	12	40 40	100.0% 100.0%	1.33 [0.73, 2.45] 1.33 [0.73, 2.45]	*
Total events	16		12				
Heterogeneity: Not app	olicable						
Test for overall effect:	Z = 0.93 (P = 0.3	5)				
Total (95% CI)		40		40	100.0%	1.33 [0.73, 2.45]	•
Total events	16		12				
Heterogeneity: Not app	olicable						0.05 0.2 1 5 20
Test for overall effect:	Z = 0.93 (P = 0.3	5)				0.05 0.2 1 5 20 Favours BB Favours CCB
Test for subgroup diffe	rences: N	ot appli	cable				1 avours DD 1 avours COD

1.13 Nitroglycerin use

	E	3B		(CCB			Mean Difference	Mean Difference		
Study or Subgroup	Mean	SD T	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI	IV, Fixed, 95% CI		
1.13.1 Propranolol vs.	. Nifedipi	ine									
Kawanishi 1992	0.7	1.2	21	0.7	1.6	16	100.0%	0.00 [-0.94, 0.94]			
Subtotal (95% CI)			21			16	100.0%	0.00 [-0.94, 0.94]			
Heterogeneity: Not app	olicable										
Test for overall effect: 2	Z = 0.00	(P = 1.	.00)								
Total (95% CI)			21			16	100.0%	0.00 [-0.94, 0.94]	•		
Heterogeneity: Not app	olicable							-	- 		
Test for overall effect: 2	Z = 0.00	(P = 1.	.00)						-2 -1 0 1 2 Favours BB Favours CCB		
Test for subgroup diffe	rences: N	Not app	plicab	le					1 avours DD 1 avours COD		

1.14 Adverse effects (dizziness)

	BB	;	CC	В		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events Total		Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% CI
1.14.1 Atenolol vs. vera	pamil						
Pepine 2003 (INVEST) Subtotal (95% CI)	151	11309 11309	154	11267 11267	100.0% 100.0 %	0.98 [0.78, 1.22] 0.98 [0.78, 1.22]	
Total events Heterogeneity: Not applic Test for overall effect: Z		= 0.84)	154				
Total (95% CI)		11309		11267	100.0%	0.98 [0.78, 1.22]	•
Total events Heterogeneity: Not applic Test for overall effect: Z Test for subgroup differe	= 0.21 (P =	,	154 le			-	0.5 0.7 1 1.5 2 Favours BB Favours CCB

1.15 Adverse effects (GI events)

	ВВ		CCE	3		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% Cl
1.15.1 Metoprolol vs. Ver	apamil						
Rehnqvist 1996 (APSIS) Subtotal (95%CI)	10	406 406	22	403 403	100.0% 100.0%	0.45 [0.22, 0.94] 0.45 [0.22, 0.94]	
Total events Heterogeneity: Not applica Test for overall effect: Z =		0.03)	22				
Total (95% CI)		406		403	100.0%	0.45 [0.22, 0.94]	•
Total events Heterogeneity: Not applica Test for overall effect: Z = Test for subgroup difference	2.12 (P =	,	22 e				0.05 0.2 1 5 20 Favours BB Favours CCB

1.16 Adverse effects (head ache)

	BB		CCE	3		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Total Events Total		Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% Cl
1.16.1 Metoprolol vs. Ver	apamil						
Rehnqvist 1996 (APSIS)	3	406	4	403	100.0%	0.74 [0.17, 3.31]	
Subtotal (95% Cl)		406		403	100.0%	0.74 [0.17, 3.31]	
Total events	3		4				
Heterogeneity: Not applica	ıble						
Test for overall effect: Z =	0.39 (P =	0.70)					
Total (95% CI)		406		403	100.0%	0.74 [0.17, 3.31]	
Total events	3		4				
Heterogeneity: Not applica	ıble						1 1 1 10 100
Test for overall effect: Z =	0.39 (P =	0.70)					0.01
Test for subgroup difference	ces: Not a	oplicabl	le				Tavouis DD Tavouis CCD

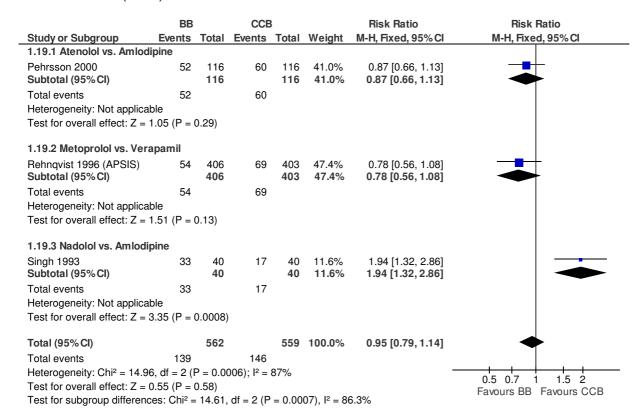
1.17 Adverse effects (light headedness)

	BB		CCI	В		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events Total		Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% Cl
1.17.1 Atenolol vs. Vera	pamil						
Pepine 2003 (INVEST) Subtotal (95% CI)	-	11309 11309	48	11267 11267	100.0% 100.0 %	1.45 [1.01, 2.10] 1.45 [1.01, 2.10]	
Total events	70		48				
Heterogeneity: Not applic	able						
Test for overall effect: Z =	= 2.00 (P =	0.05)					
Total (95% CI)		11309		11267	100.0%	1.45 [1.01, 2.10]	•
Total events	70		48				
Heterogeneity: Not applic Test for overall effect: Z = Test for subgroup differen	= 2.00 (P =	,	le				0.2 0.5 1 2 5 Favours BB Favours CCB

1.18 Adverse effects (constipation)

	BB	CC	В		Risk Ratio	Risk Ratio
Study or Subgroup	Events To	tal Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% Cl
1.18.1 Atenolol vs. Vera	pamil					
Pepine 2003 (INVEST) Subtotal (95% CI)	15 113 113		11267 11267	100.0% 100.0 %	0.08 [0.05, 0.13] 0.08 [0.05, 0.13]	
Total events Heterogeneity: Not applic Test for overall effect: Z		195 0001)				
Total (95% CI)	113	09	11267	100.0%	0.08 [0.05, 0.13]	•
Total events Heterogeneity: Not applic Test for overall effect: Z Test for subgroup differe	= 9.60 (P < 0.0	,				0.02

1.19 Adverse effects (overall)



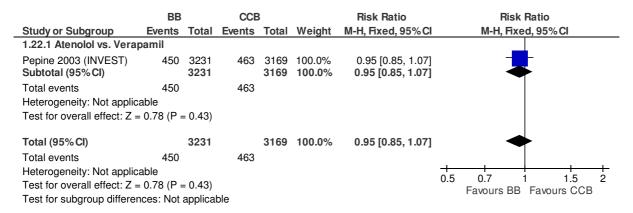
1.20 Withdrawals due to adverse effects

	BB		CCE	3		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% CI
1.20.1 Atenolol vs. Nif	edipine						
Dargie1996 (TIBET) Subtotal (95% CI)	60	226 226	93	232 232	100.0% 100.0 %	0.66 [0.51, 0.87] 0.66 [0.51, 0.87]	
Total events Heterogeneity: Not app Test for overall effect:		P = 0.00	93				
Total (95% CI)	,	226	,	232	100.0%	0.66 [0.51, 0.87]	•
	60 93					0.5 0.7 1 1.5 2 Favours BB Favours CCB	

1.21 Combined outcomes (death, non fatal MI, non fatal stroke) (sub group females)

	BB	CCE	3		Risk Ratio	Risk Ratio
Study or Subgroup	Events Tot	al Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% Cl
1.21.1 Atenolol vs. Verag	oamil					
Pepine 2003 (INVEST)	540 592	20 524	5850	100.0%	1.02 [0.91, 1.14]	-
Subtotal (95% CI)	592	20	5850	100.0%	1.02 [0.91, 1.14]	◆
Total events	540	524				
Heterogeneity: Not application	able					
Test for overall effect: Z =	: 0.31 (P = 0.7	6)				
Total (95% CI)	592	20	5850	100.0%	1.02 [0.91, 1.14]	•
Total events	540	524				
Heterogeneity: Not applica	able					0.5 0.7 1 1.5 2
Test for overall effect: Z =	0.31 (P = 0.7	6)				0.5 0.7 1 1.5 2 Favours BB Favours CCB
Test for subgroup differer	nces: Not appl	icable				1 avours DD 1 avours OOD

1.22 Combined outcome (death, non fatal MI, non fatal stroke) (sub group diabetes)



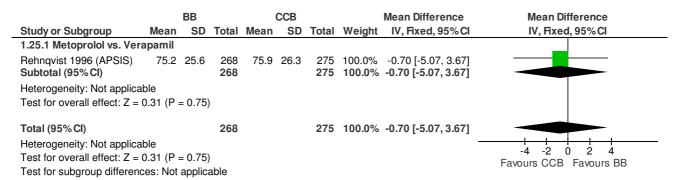
1.23 Combined (death, non fatal MI, Non fatal stroke)- Subgroup Age>70

	ВВ		CCE	3		Risk Ratio		Risk	Ratio		
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% C	I	M-H, Fixed, 95% C			
1.23.1 Atenolol vs. Vera	pamil										
Pepine 2003 (INVEST) Subtotal (95% CI)	664	3829 3829	596	3694 3694	100.0% 100.0 %	1.07 [0.97, 1.19] 1.07 [0.97, 1.19]					
Total events	664		596								
Heterogeneity: Not applic	able										
Test for overall effect: Z =	= 1.40 (P =	0.16)									
Total (95% CI)		3829		3694	100.0%	1.07 [0.97, 1.19]			•		
Total events	664		596								
Heterogeneity: Not applic	able						<u> </u>	0.7			$\overline{}$
Test for overall effect: Z =	= 1.40 (P =	0.16)					0.5	0.7 Favours BB	Favour	1.5	2
Test for subgroup differer	nces: Not	applical	ble					ravours bb	ravour	S CCB	

1.24 Quality of life (sleep disturbance)

		BB		(CCB			Mean Difference	Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI	IV, Fixed, 95% CI
1.24.1 Metoprolol vs. Vera	pamil								
Rehnqvist 1996 (APSIS) Subtotal (95% CI)	16.2	5.2	270 270	16.6	5.5	275 275	100.0% 100.0%	-0.40 [-1.30, 0.50] - 0.40 [-1.30, 0.50]	
Heterogeneity: Not applicab Test for overall effect: $Z = 0$		= 0.38	8)						
Total (95% CI) Heterogeneity: Not applicab Test for overall effect: Z = 0 Test for subgroup difference	.87 (P :		,			275	100.0%	-0.40 [-1.30, 0.50]	-2 -1 0 1 2 Favours CCB Favours BB

1.25 Quality of life (overall life satisfaction)



1.26 Quality of life (psychosomatic symptoms)

		ВВ			ССВ			Mean Difference	Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI	IV, Fixed, 95% CI
1.26.1 Metoprolol vs. Vera	pamil								
Rehnqvist 1996 (APSIS) Subtotal (95% CI)	60.5	15.6	275 275	61.8	15.6		100.0% 100.0 %	-1.30 [-3.89, 1.29] -1.30 [-3.89, 1.29]	
Heterogeneity: Not applicable Test for overall effect: $Z = 0$		= 0.33)						
Total (95% CI) Heterogeneity: Not applicate Test for overall effect: Z = 0 Test for subgroup difference).98 (P =		,			282	100.0%	-1.30 [-3.89, 1.29]	-4 -2 0 2 4 Favours BB Favours CCB

1 BB vs. BB +CCB

1.1 Exercise time (min)

	Expe	rimen	tal	С	ontrol			Mean Difference	Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI	IV, Fixed, 95% CI
1.1.1 Propranolol vs.	Propran	olol +l	Nifedip	ine					
Tweddel 1981	4.8	1.68	18	5.06	1.68	18	50.5%	-0.26 [-1.36, 0.84]	
Subtotal (95% CI)			18			18	50.5%	-0.26 [-1.36, 0.84]	
Heterogeneity: Not ap	plicable								
Test for overall effect:	Z = 0.46	(P = 0)	0.64)						
1.1.2 Propranolol vs.	. Propran	olol +l	Dilitaze	m					
O' hara 1987	6.8	3.5	34	9.6	1.3	7	26.3%	-2.80 [-4.32, -1.28]	
Subtotal (95% CI)			34			7	26.3%	-2.80 [-4.32, -1.28]	
Heterogeneity: Not ap	plicable								
Test for overall effect:	Z = 3.61	(P = 0)	0.0003)						
1.1.3 Propranolol vs.	Propran	olol +l	Nifedip	ine					
Kawanishi 1992	7.2	2.6	21	7.3	2.4	16	23.2%	-0.10 [-1.72, 1.52]	
Subtotal (95% CI)			21			16	23.2%	-0.10 [-1.72, 1.52]	
Heterogeneity: Not ap	plicable								
Test for overall effect:	Z = 0.12	(P = 0)	0.90)						
Total (95% CI)			73			41	100.0%	-0.89 [-1.67, -0.11]	•
Heterogeneity: Chi ² =	8.24, df =	= 2 (P	= 0.02)	$I^2 = 76$	%				-4 -2 0 2 4
Test for overall effect:	Z = 2.24	(P = 0)	0.03)						Favours BB+CCB Favours BB
Test for subgroup diffe	erences:	Chi ² =	8.24. d	f = 2 (P	= 0.02	2). $I^2 = 7$	75.7%		TAVOUIS DETOCE TAVOUIS DE

1.2 Time to onset of angina (min)

		BB		BB	+CC	В		Mean Difference	Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI	IV, Fixed, 95% CI
1.2.1 Propranolol vs.	Proprar	olol	+Nifedi	ipine					
Kawanishi 1992 Subtotal (95% CI)	5.7	1.2	21 21	5.5	2.5	16 16	100.0%	0.20 [-1.13, 1.53] 0.20 [-1.13, 1.53]	
Heterogeneity: Not ap	plicable						1001070	0.20[0,0]	
Test for overall effect:	•) (P =	0.77)						
Total (95% CI)			21			16	100.0%	0.20 [-1.13, 1.53]	
Heterogeneity: Not ap	plicable								-2 -1 0 1 2
Test for overall effect:	Z = 0.30) (P =	0.77)						Favours BB Favours BB+CC
Test for subgroup diffe	erences:	Not a	applicat	ole					. 4.04.0 22 . 4.04.0 22.00

1.3 Angina attacks/week

		BB		BE	3+CC	В		Mean Difference	Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI	IV, Fixed, 95% CI
1.3.1 Propranolol vs. Prop	oranolol	+Nife	dipine						
Kawanishi 1992	2	2.3	21	1.3	1.7	16	58.2%	0.70 [-0.59, 1.99]	-
Subtotal (95% CI)			21			16	58.2%	0.70 [-0.59, 1.99]	
Heterogeneity: Not applica	ble								
Test for overall effect: Z =	1.06 (P :	= 0.29)						
1.3.2 Metoprolol vs. Meto	prolol +	Nifedi	pine						
Savonitto 1996 (IMAGE)	-2.01	4.72	61	-2.06	3.8	61	41.8%	0.05 [-1.47, 1.57]	
Subtotal (95% CI)			61			61	41.8%	0.05 [-1.47, 1.57]	*
Heterogeneity: Not applica	ble								
Test for overall effect: $Z = 0$	0.06 (P :	= 0.95)						
Total (95% CI)			82			77	100.0%	0.43 [-0.56, 1.41]	•
Heterogeneity: Chi ² = 0.41	, df = 1 (P = 0.	52); l² =	= 0%					
Test for overall effect: Z =	0.85 (P :	= 0.39)						-4 -2 0 2 4 Favours BB Favours BB+CC
Test for subgroup difference	ces: Chi²	= 0.4	1. df = 1	1 (P = 0).52).	$I^2 = 0\%$,		Tavours DD Tavours BB+CC

1.4 Angina attacks/day

	ВВ		ВВ	+CC	В		Mean Difference	Mean Difference
Study or Subgroup	Mean SI	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI	IV, Fixed, 95% Cl
1.4.1 Propranolol vs.	Propranolo	l +Nifed	ipine					
Tweddel 1981 Subtotal (95% CI)	7 8.4	18 18	4	8.4	18 18	100.0% 100.0 %	3.00 [-2.49, 8.49] 3.00 [-2.49 , 8.49]	
Heterogeneity: Not app Test for overall effect:		= 0.28)						
Total (95% CI) Heterogeneity: Not appress for overall effect: Test for subgroup diffe	Z = 1.07 (P	,	ole		18	100.0%	3.00 [-2.49, 8.49]	-20 -10 0 10 20 Favours BB Favours BB+CCB

1.5 Nitroglycerin tablets/week

		ВВ		BB	+CC	В		Mean Difference	Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI	IV, Fixed, 95% CI
1.5.1 Propranolol vs.	Proprar	nolol	+Nifedi	ipine					<u> </u>
Kawanishi 1992 Subtotal (95% CI)	0.7	1.2	21 21	0.3	0.4	16 16		0.40 [-0.15, 0.95] 0.40 [-0.15, 0.95]	
Heterogeneity: Not ap	plicable								
Test for overall effect:	Z = 1.43	3 (P =	0.15)						
Total (95% CI)			21			16	100.0%	0.40 [-0.15, 0.95]	
Heterogeneity: Not ap	plicable								-2 -1 0 1 2
Test for overall effect:	Z = 1.43	8 (P =	0.15)						Favours BB Favours BB+CCB
Test for subgroup diffe	erences:	Not a	applical	ble					Tavouis DD Tavouis DD+OOL

1.6 Cardiac death

	ВВ		BB+C	CB		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% Cl	M-H, Fixed, 95% CI
1.6.1 Atenolol vs. Ater	nolol+Nife	dipine					
Dargie 1996 (TIBET)	3	226	4	224	100.0%	0.74 [0.17, 3.28]	-
Subtotal (95% CI)		226		224	100.0%	0.74 [0.17, 3.28]	
Total events	3		4				
Heterogeneity: Not app	olicable						
Test for overall effect: 2	Z = 0.39 (F	P = 0.70	0)				
Total (95% CI)		226		224	100.0%	0.74 [0.17, 3.28]	
Total events	3		4				
Heterogeneity: Not app	olicable						1 1 10 100
Test for overall effect: 2	Z = 0.39 (F	P = 0.70	O)				0.01
Test for subgroup diffe	rences: No	ot applic	cable				Tavours DD Tavours DD+CCD

1.7 Non fatal MI

	ВВ		BB+C	CB		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% Cl
1.7.1 Atenolol +Atenolo	ol +Nifedi	pine					
Dargie 1996 (TIBET) Subtotal (95% CI)	14	226 226	7		100.0% 100.0%	1.98 [0.82, 4.82] 1.98 [0.82, 4.82]	
Total events	14		7				
Heterogeneity: Not appl	licable						
Test for overall effect: Z	' = 1.51 (F	P = 0.13	3)				
Total (95% CI)		226		224	100.0%	1.98 [0.82, 4.82]	
Total events	14		7				
Heterogeneity: Not appl	licable						0.05 0.2 1 5 20
Test for overall effect: Z	<u>′</u> = 1.51 (F	P = 0.13	3)				Favours BB Favours BB+CCB
Test for subgroup differ	ences: No	ot applic	cable				rateate 22 ravours 25 root

1.8 Withdrawals due to side effects

	BB		BB+C	CB		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% CI
1.8.1 Atenolol vs. Ater	nolol +Nife	dipine					
Dargie 1996 (TIBET) Subtotal (95% CI)	60	226 226	64	224 224	100.0% 100.0%	0.93 [0.69, 1.25] 0.93 [0.69, 1.25]	
Total events	60		64				
Heterogeneity: Not app	licable						
Test for overall effect: 2	Z = 0.48 (F	P = 0.63	3)				
Total (95% CI)		226		224	100.0%	0.93 [0.69, 1.25]	
Total events	60		64				
Heterogeneity: Not app	licable					=	0.5 0.7 1 1.5 2
Test for overall effect: 2	Z = 0.48 (F	P = 0.63	3)				0.5 0.7 1 1.5 2 Favours BB Favours BB+CCB
Test for subgroup differ	rences: No	ot applic	cable				1 avours DD 1 avours DD+OOD

1.9 Adverse effects (overall)

	ВВ		BB+C	СВ		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% Cl
1.9.1 Atenolol vs. Ate	nolol+Am	lodipine	9				
Pehrsson 2000 Subtotal (95% CI)	52	116 116	59	119 119		0.90 [0.69, 1.19] 0.90 [0.69, 1.19]	
Total events Heterogeneity: Not ap			59				
Test for overall effect:	Z = 0.73 ($P = 0.4^{\circ}$	7)				
Total (95% CI)		116		119	100.0%	0.90 [0.69, 1.19]	•
Total events Heterogeneity: Not appress for overall effect: Test for subgroup differ	Z = 0.73 (,			-	0.5 0.7 1 1.5 2 Favours BBI Favours BB+CCB

1.10 Time to 1mm ST depression (sec)

		BB		В	B+CCB			Mean Difference	Mean Difference	
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI	IV, Fixed, 95% CI	
1.10.1 Metoprolol vs. Met	oprolol -	Nifedip	ine							
Savonitto 1996 (IMAGE) Subtotal (95% CI)	49	128.6	65 65	108	149.1	63 63	100.0% 100.0 %	-59.00 [-107.30, -10.70] -59.00 [-107.30, -10.70]		
Heterogeneity: Not applica Test for overall effect: Z = 2		= 0.02)								
Total (95% CI) Heterogeneity: Not applica Test for overall effect: Z = 2 Test for subgroup difference	2.39 (P =	,	65			63	100.0%	-59.00 [-107.30, -10.70]	+ + + + + + + + + + + + + + + + + + + +	 200

2 CCB vs. BB +CCB

2.1 Exercise time (min)

	(CCB		ВВ	+CCl	В		Mean Difference	Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI	IV, Fixed, 95% CI
2.1.1 Diltiazem vs. Pro	opranol	ol+Di	ltiazen	1					
O' hara 1987	6.5	2.3	34	9.6	1.3	7	60.4%	-3.10 [-4.33, -1.87]	
Subtotal (95% CI)			34			7	60.4%	-3.10 [-4.33, -1.87]	•
Heterogeneity: Not app	olicable								
Test for overall effect:	Z = 4.92	? (P <	0.0000	01)					
2.1.2 Nifedipine vs. Pr	oprano	lol +l	Nifedipi	ne					
Kawanishi 1992	7.2	2.2	16	7.3	2.4	19	39.6%	-0.10 [-1.63, 1.43]	
Subtotal (95% CI)			16			19	39.6%	-0.10 [-1.63, 1.43]	•
Heterogeneity: Not app	olicable								
Test for overall effect:	Z = 0.13	8 (P =	0.90)						
Total (95% CI)			50			26	100.0%	-1.91 [-2.87, -0.95]	•
Heterogeneity: Chi ² = 8	3.98, df =	= 1 (F	P = 0.00	03); I ² =	89%				-4 -2 0 2 4
Test for overall effect:	Z = 3.90) (P <	0.000	1)					-4 -2 0 2 4 Favours BB+CCB Favours CCB
Test for subgroup diffe	rences:	Chi ²	= 8.98,	df = 1 (P = 0	0.003),	l ² = 88.9%	, o	ravours DD+OOD Favours COB

2.2 Cardiac death

	CCB	BB+C	СВ		Risk Ratio	Risk Ratio
Study or Subgroup	Events To	tal Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% CI
2.2.1 Nifedipine vs. Ato	enolol +Nifed	ipine				
Dargie 1996 (TIBET)	-	32 4	224		1.45 [0.41, 5.06]	—
Subtotal (95% CI)	2	32	224	100.0%	1.45 [0.41, 5.06]	
Total events	6	4				
Heterogeneity: Not app	licable					
Test for overall effect: 2	Z = 0.58 (P =	0.56)				
Total (95% CI)	2	32	224	100.0%	1.45 [0.41, 5.06]	•
Total events	6	4				
Heterogeneity: Not app	licable					0.01 0.1 1 10 100
Test for overall effect: 2	Z = 0.58 (P =	0.56)				Favours CCB Favours BB+CCB
Test for subgroup differ	rences: Not a	oplicable				1 4,0413 005 1 4,0413 55+005

2.3 Non fatal MI

	CCB		BB+C	CB		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% Cl
2.3.1 Nifedipine vs. Ate	enolol +Nif	edipin	е				
Dargie 1996 (TIBET) Subtotal (95% CI)	15	232 232	7		100.0% 100.0%	2.07 [0.86, 4.98] 2.07 [0.86, 4.98]	
Total events	15		7				
Heterogeneity: Not app	licable						
Test for overall effect: 2	Z = 1.62 (P	= 0.10))				
Total (95% CI)		232		224	100.0%	2.07 [0.86, 4.98]	•
Total events	15		7				
Heterogeneity: Not app	licable						0.01 0.1 1 10 100
Test for overall effect: 2	Z = 1.62 (P	= 0.10))				Favours CCB Favours BB+CCB
Test for subgroup differ	ences: No	t applic	cable				. 4.54.5 552 14/64/5 25/662

2.4 Withdrawals due to side effects

	CCB	}	BB+C	CB		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% Cl	M-H, Fixed, 95% CI
2.4.1 Nifedipine vs. Ate	enolol +Ni	ifedipin	е				
Dargie 1996 (TIBET) Subtotal (95% CI)	93	232 232	64		100.0% 100.0 %	1.40 [1.08, 1.82] 1.40 [1.08, 1.82]	
Total events	93		64				
Heterogeneity: Not app	licable						
Test for overall effect: 2	Z = 2.55 (F	P = 0.01	1)				
Total (95% CI)		232		224	100.0%	1.40 [1.08, 1.82]	•
Total events	93		64				
Heterogeneity: Not app	licable					=	0.5 0.7 1 1.5 2
Test for overall effect: 2	Z = 2.55 (F	P = 0.01	I)				0.5 0.7 1 1.5 2 Favours CCB Favours BB+CCB
Test for subgroup differ	rences: No	ot applic	cable				1 avours COD 1 avours DD+COD

2.5 Adverse effects (overall)

	CCE	3	BB+C	CB		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% CI
2.5.1 Amlodipine vs.	Atenolol +	Amlodi	pine				
Pehrsson 2000 Subtotal (95% CI)	60	116 116	59	119 119	100.0% 100.0 %	1.04 [0.81, 1.34] 1.04 [0.81, 1.34]	*
Total events Heterogeneity: Not ap Test for overall effect:	•	P = 0.7	59 4)				
Total (95% CI) Total events Heterogeneity: Not ap Test for overall effect: Test for subgroup diffe	Z = 0.33 (,	119	100.0%	1.04 [0.81, 1.34]	0.5 0.7 1 1.5 2 Favours CCB Favours BB+CCB

2.6 Time to onset of angina (min)

	CCB	BB	+CCI	В		Mean Difference Mean Difference				
Study or Subgroup	Mean SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI	IV, Fixed, 95% CI		
2.6.1 Nifedipine vs. Pr	opranolol +N	Nifedipi	ne							
Kawanishi 1992 Subtotal (95%Cl)	5 1.8	16 16	5.5	2.5	19 19	100.0% 100.0 %	-0.50 [-1.93, 0.93] -0.50 [-1.93 , 0.93]			
Heterogeneity: Not appress for overall effect:		0.49)								
Total (95% CI) Heterogeneity: Not app Test for overall effect: Test for subgroup diffe	Z = 0.69 (P =	,			19	100.0%	-0.50 [-1.93, 0.93]	-4 -2 0 2 4 Favours BB+CCB Favours CCB		

2.7 Angina episodes/week

	CC	3	BE	3+CCB	}		Mean Difference	Mean Difference
Study or Subgroup	Mean S	D Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI	IV, Fixed, 95% CI
2.7.1 Nifedipine vs. Propi	ranolol+Nife	dipine						
Kawanishi 1992 Subtotal (95%Cl)	2.7 5	.6 16 16	4.3	7.9	19 19	14.7% 14.7 %	-1.60 [-6.09, 2.89] -1.60 [-6.09, 2.89]	
Heterogeneity: Not applica	able							
Test for overall effect: Z =	0.70 (P = 0)	48)						
2.7.2 Nifedipine vs. Meto	prolol +Nife	dipine						L
Savonitto 1996 (IMAGE) Subtotal (95%CI)	-2.32 6.	43 61 61	-2.71	3.58	57 57	85.3% 85.3 %	0.39 [-1.47, 2.25] 0.39 [-1.47 , 2.25]	.
Heterogeneity: Not applica	able							
Test for overall effect: Z =	0.41 (P = 0)	68)						
Total (95% CI)		77			76	100.0%	0.10 [-1.62, 1.82]	*
Heterogeneity: Chi ² = 0.64 Test for overall effect: Z = Test for subgroup differen	0.11 (P = 0	91)		42) I	2 _ 0%			-10 -5 0 5 10 Favours CCB Favours BB+CCB
rest for subgroup differen	003. OIII = 1	J.07, ui –	1 (1 – 0	.¬∠), I	- 0 /0			

2.8 Nitroglycerin tablets/week

	CCB			3+CC	В		Mean Difference Mean Difference					
Study or Subgroup	Mean S	D Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI	IV, Fixed, 95% CI				
2.8.1 Nifedipine vs. P	ropranolol	+Nifedipi	ne									
Kawanishi 1992	0.7 1	.6 16	1.1	2.2	19	100.0%	-0.40 [-1.66, 0.86]					
Subtotal (95% CI)		16			19	100.0%	-0.40 [-1.66, 0.86]					
Heterogeneity: Not ap	plicable											
Test for overall effect:	Z = 0.62 (I	P = 0.53										
Total (95% CI)		16			19	100.0%	-0.40 [-1.66, 0.86]					
Heterogeneity: Not ap	plicable							-4 -2 0 2 4				
Test for overall effect:	Z = 0.62 (I	P = 0.53						-4 -2 0 2 4 Favours CCB Favours BB+CCB				
Test for subgroup diffe	erences: N	ot applica	ble					Tavodis OOD Tavodis DD+OOD				

2.9 Time to 1 mm ST segment depression

		CCB		В	B+CCB			Mean Difference	Mean Difference
Study or Subgroup Mean SD		Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI	IV, Fixed, 95% CI	
2.9.1 Nifedipine vs. Meto	prolol+Ni	fedipine)						
Savonitto 1996 (IMAGE) Subtotal (95%CI)	37	141.28	62 62	107	166.4	59 59		-70.00 [-125.13, -14.87] - 70.00 [-125.13, -14.87]	
Heterogeneity: Not applicate Test for overall effect: Z =		0.01)							
Total (95% CI) Heterogeneity: Not applica Test for overall effect: Z = Test for subgroup differen	2.49 (P =	,	62			59	100.0%	-70.00 [-125.13, -14.87]	-200 -100 0 100 200 Favours CCB Favours BB+CCI

1 CCB +basic regimen vs. Placebo +basic regimen

1.1 All cause mortality

	CCE	3	Place	bo		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% Cl	M-H, Fixed, 95% CI
Poole-Wilson 2004(ACTION)	310	3825	291	3840	100.0%	1.07 [0.92, 1.25]	•
Total (95% CI)		3825		3840	100.0%	1.07 [0.92, 1.25]	•
Total events	310		291				
Heterogeneity: Not applicable Test for overall effect: Z = 0.86	(P = 0.39)				-	0.5 0.7 1 1.5 2 Favours CCB Favours Placebo

1.2 Cardiovascular or unknown death

	CCE	3	Place	bo		Risk Ratio		Ris	sk Ra	ıtio	
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI		M-H, Fi	xed,	95% CI	
Poole-Wilson 2004(ACTION)	178	3825	177	3840	100.0%	1.01 [0.82, 1.24]					
Total (95% CI)		3825		3840	100.0%	1.01 [0.82, 1.24]			\		
Total events	178		177								
Heterogeneity: Not applicable Test for overall effect: Z = 0.09	/D 0.03	`					0.2	0.5	1	2	5
rest for overall effect. Z = 0.09	(F = 0.93)					Fa	vours CC	B F	avours P	lacebo

1.3 MI

	CCE	3	Place	bo		Risk Ratio Risk Ratio					
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI		M-H, Fix	ed, 95% (CI	
Poole-Wilson 2004(ACTION)	320	3825	296	3840	100.0%	1.09 [0.93, 1.26]					
Total (95% CI)		3825		3840	100.0%	1.09 [0.93, 1.26]					
Total events	320		296								
Heterogeneity: Not applicable Test for overall effect: Z = 1.06	(P = 0.29)					0.5 Favo	0.7 ours CCB		.5 s Pla	2 icebo

1.4 Withdrawal due to adverse effects

	CCE	3	Place	bo		Risk Ratio		Risk	Ratio	
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI		M-H, Fix	ed, 95% CI	
Poole-Wilson 2004(ACTION)	389	3825	172	3840	100.0%	2.27 [1.91, 2.70]				
Total (95% CI)		3825		3840	100.0%	2.27 [1.91, 2.70]			•	
Total events	389		172							
Heterogeneity: Not applicable Test for overall effect: Z = 9.25	(P < 0.00	001)					0.2 Fa	0.5 vours CCB	1 2 Favours F	5 Placebo

1.5 combined outcome (death, acute MI, refractory angina, new overt HF, debilitating stroke, peripheral revas) (age >65yrs)

	CCE	3	Place	bo		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% CI
Poole-Wilson 2004(ACTION)	467	1772	466	1776	100.0%	1.00 [0.90, 1.12]	-
Total (95% CI)		1772		1776	100.0%	1.00 [0.90, 1.12]	*
Total events	467		466				
Heterogeneity: Not applicable Test for overall effect: Z = 0.08	(P = 0.94)					0.5 0.7 1 1.5 2 Favours CCB Favours Placebo

1.6 combined outcome (death, acute MI, refractory angina, new overt HF, debilitating stroke, peripheral revas) (females)

	CCB			bo		Risk Ratio	Risk Ratio			
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% CI			
Poole-Wilson 2004(ACTION)	166	784	147	797	100.0%	1.15 [0.94, 1.40]	—			
Total (95% CI)		784		797	100.0%	1.15 [0.94, 1.40]	•			
Total events	166		147							
Heterogeneity: Not applicable Test for overall effect: Z = 1.36	(P = 0.17)				-	0.5 0.7 1 1.5 2 Favours CCB Favours Placebo			

1.7 combined outcome (death, acute MI, refractory angina, new overt HF, debilitating stroke, peripheral revas) (diabetes)

	CCE	3	Place	bo		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% Cl	M-H, Fixed, 95% CI
Poole-Wilson 2004(ACTION)	164	565	170	545	100.0%	0.93 [0.78, 1.11]	-
Total (95% CI)		565		545	100.0%	0.93 [0.78, 1.11]	•
Total events Heterogeneity: Not applicable Test for overall effect: Z = 0.79	164 (P = 0.43)	170			-	0.5 0.7 1 1.5 2 Favours CCB Favours Placebo

1.8 Combined outcome (death from any cause, acute MI, refractory angina, new overt HF, debilitating stroke, peripheral revas)(age <65 years)

	CCE	3	Place	bo		Risk Ratio	Risk Ratio	
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% CI	
Poole-Wilson 2004(ACTION)	337	2053	362	2064	100.0%	0.94 [0.82, 1.07]	-	
Total (95% CI)		2053		2064	100.0%	0.94 [0.82, 1.07]	•	
Total events	337		362					
Heterogeneity: Not applicable Test for overall effect: Z = 0.96	(P = 0.34)					0.5 0.7 1 1.5 2 Favours CCB Favours Place	ebo

1.9 combined outcome (death from any cause, acute MI, refractory angina, new overt HF, debilitating stroke ,peripheral revas)(males)

	CCE	B Placebo				Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% CI
Poole-Wilson 2004(ACTION)	638	3041	681	3043	100.0%	0.94 [0.85, 1.03]	-
Total (95% CI)		3041		3043	100.0%	0.94 [0.85, 1.03]	•
Total events Heterogeneity: Not applicable Test for overall effect: Z = 1.32	638 (P = 0.19))	681				0.5 0.7 1 1.5 2 Favours CCB Favours Placebo

1.10 combined outcome (death from any cause, acute MI, refractory angina, new overt HF, debilitating stroke ,peripheral revas)(no diabetes)

	CCE	3	Place	bo		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% CI
Poole-Wilson 2004(ACTION)	640	3260	658	3295	100.0%	0.98 [0.89, 1.08]	-
Total (95% CI)		3260		3295	100.0%	0.98 [0.89, 1.08]	•
Total events	640		658				
Heterogeneity: Not applicable Test for overall effect: Z = 0.34	(P = 0.73)					0.5 0.7 1 1.5 2 Favours CCB Favours Placebo

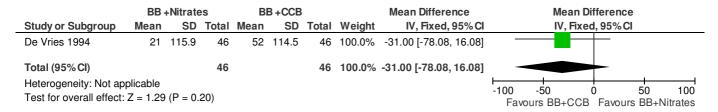
Nitrates for stable angina

1 BB+Nitrates vs. BB+CCB

1.1 Exercise time (Sec)

	BB +	Nitrat	es	BE	+CCE	3		Mean Difference		Me	an Differe	ence		
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI		IV,	Fixed, 95	% CI		
De Vries 1994	12	77.2	46	22	75.2	46	100.0%	-10.00 [-41.14, 21.14]				-		
Total (95% CI)			46			46	100.0%	-10.00 [-41.14, 21.14]		-		-		
Heterogeneity: Not ap Test for overall effect:	•	3 (P = 0).53)						-100 Favou	-50 rs BB+	0 CCB Fa	50 vours BE	10 3+Nitrate	-

1.2 Time to onset of angina (Sec)



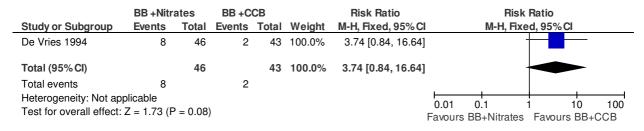
1.3 Time to ST segment depression (sec)

	BB -	+Nitrate	s	ВІ	B+CCB			Mean Difference		Mean	Differe	nce	
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI		IV, Fix	ced, 95%	6CI	
De Vries 1994	3	136.2	46	50	134.9	46	100.0%	-47.00 [-102.40, 8.40]	+		+		
Total (95% CI)			46			46	100.0%	-47.00 [-102.40, 8.40]			-		
Heterogeneity: Not app Test for overall effect:		(P = 0.	10)						-100 Favours	-50 BB+Nitrate	0 es Favo	50 ours BB+0	100 CCB

1.4 Adverse effects (overall)

	BB +Nitr	ates	BB +C	CB		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% C	M-H, Fixed, 95% Cl
De Vries 1994	22	46	14	43	100.0%	1.47 [0.87, 2.48]	-
Total (95% CI)		46		43	100.0%	1.47 [0.87, 2.48]	•
Total events	22		14				
Heterogeneity: Not ap Test for overall effect:	•	P = 0.15))				0.01 0.1 1 10 100 Favours BB+Nitrates Favours BB+CCB

1.5 Stopping due to adverse events



Nitrates for stable angina

1.6 Headache



1 Ivabradine vs placebo

1.1 Time to angina onset (sec) (trough change from baseline) - 14 days

	Ival	bradin	e	PI	acebo)		Mean Difference	Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI	IV, Fixed, 95% CI
Borer 2003	38.8	81.7	59	24.7	64.2	68	100.0%	14.10 [-11.73, 39.93]	-
Total (95% CI)			59			68	100.0%	14.10 [-11.73, 39.93]	
Heterogeneity: Not ap Test for overall effect:		' (P = 0	0.28)						-100 -50 0 50 100 Favours placebo Favours ivabradine

1.2 Time to angina onset (sec) (peak change from baseline - 14 days

	Expe	erimen	tal	С	ontrol			Mean Difference		Mea	n Differe	ence	
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI		IV, F	Fixed, 95	% CI	
Borer 2003	72.1	83.1	59	28.9	66.5	68	100.0%	43.20 [16.75, 69.65]			-		-
Total (95% CI)			59			68	100.0%	43.20 [16.75, 69.65]			-	~	-
Heterogeneity: Not ap Test for overall effect:	') (P = 0	0.001)						-100 Fav	-50 ours plac	0 ebo Fa	50 vours ivab	100 radine

1.3 Time to 1 mm S depression (sec) (at peak of drug activity) - 14 days

	Ival	bradin	е	PI	acebo)		Mean Difference		Mea	n Differe	ence	
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI		IV, I	ixed, 95	%CI	
Borer 2003	62.8	79.7	59	9.9	68.5	68	100.0%	52.90 [26.85, 78.95]					_
Total (95% CI)			59			68	100.0%	52.90 [26.85, 78.95]					-
Heterogeneity: Not ap Test for overall effect:	•	3 (P < 0	0.0001)						-100 Favou	-50 Irs Ivabrac	0 dine Fav	50 ours Plac	100 cebo

1.4 Time to 1 mm ST depression (sec) (at trough) - 14 days

	Ival	oradin	е	PI	acebo)		Mean Difference		Mea	n Differe	nce	
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI		IV, I	Fixed, 959	% CI	
Borer 2003	44.1	80.1	59	9	63.6	68	100.0%	35.10 [9.68, 60.52]					
Total (95% CI)			59			68	100.0%	35.10 [9.68, 60.52]			-		
Heterogeneity: Not ap Test for overall effect:	•	(P = 0	0.007)						-100 Favou	-50 rs Ivabrac	0 line Fav	50 ours Plac	100 cebo

1.5 With limiting angina - CV death or hospitalisation for MI or HF- median 18 months

	Ivabrac	line	Place	bo		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% CI
Fox 2009 (BEAUTIFUL)	88	734	120	773	100.0%	0.77 [0.60, 1.00]	-
Total (95% CI)		734		773	100.0%	0.77 [0.60, 1.00]	•
Total events	88		120				
Heterogeneity: Not applicate Test for overall effect: Z =		0.05)					0.2 0.5 1 2 5 Favours lyabradine Favours Placebo

1.6 With limiting angina - all cause mortality - median 18 months

	lvabrac	line	Place	bo		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% CI
Fox 2009 (BEAUTIFUL)	64	734	77	773	100.0%	0.88 [0.64, 1.20]	-
Total (95% CI)		734		773	100.0%	0.88 [0.64, 1.20]	•
Total events	64		77				
Heterogeneity: Not applica	able						0.05 0.2 1 5 20
Test for overall effect: Z =	0.83 (P =	0.41)					Favours Ivabradine Favours Placebo

1.7 With limiting angina - Cardiac death - median 18 months

	Experim	ental	Contr	ol		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% CI
Fox 2009 (BEAUTIFUL)	11	734	16	773	100.0%	0.72 [0.34, 1.55]	-
Total (95% CI)		734		773	100.0%	0.72 [0.34, 1.55]	•
Total events	11		16				
Heterogeneity: Not application Test for overall effect: Z =).41)					0.01 0.1 1 10 100 Favours lyabradine Favours placebo

1.8 With limiting angina - hospitalisation for HF- median 18 months

	Experime	ental	Contr	ol		Risk Ratio	Risk Ratio	
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% CI	
Fox 2009 (BEAUTIFUL)	33	734	41	773	100.0%	0.85 [0.54, 1.33]		
Total (95% CI)		734		773	100.0%	0.85 [0.54, 1.33]	•	
Total events	33		41					
Heterogeneity: Not applicate Test for overall effect: Z =).47)					0.01 0.1 1 10 Favours Ivabradine Favours Placeb	100

1.9 With limiting angina - Hospitalisation for MI or unstable angina - median 18 months

	Ivabrad	line	Place	bo		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% CI
Fox 2009 (BEAUTIFUL)	56	734	65	773	100.0%	0.91 [0.64, 1.28]	-
Total (95% CI)		734		773	100.0%	0.91 [0.64, 1.28]	•
Total events	56		65				
Heterogeneity: Not applica	able						0.1 0.2 0.5 1 2 5 10
Test for overall effect: Z =	0.56 (P =	0.58)					Favours lyabradine Favours placebo

1.10 Without limiting angina - CV death or hospitalisation for MI or HF- median 18 months

	lvabradi	ine	Place	bo		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% CI
Fox 2009 (BEAUTIFUL)	756	4745	712	4665	100.0%	1.04 [0.95, 1.15]	
Total (95% CI)		4745		4665	100.0%	1.04 [0.95, 1.15]	•
Total events	756		712				
Heterogeneity: Not applica	able						0.5 0.7 1 1.5 2
Test for overall effect: Z =	0.90 (P = 0)	0.37)					Favours Ivabradine Favours Placebo

1.11 Without limiting angina - all cause mortality - median 18 months

	Ivabrac	line	Place	bo		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% CI
Fox 2009 (BEAUTIFUL)	508	4745	470	4665	100.0%	1.06 [0.94, 1.20]	=
Total (95% CI)		4745		4665	100.0%	1.06 [0.94, 1.20]	•
Total events	508		470				
Heterogeneity: Not applica	able						0.5 0.7 1 1.5 2
Test for overall effect: Z =	1.00 (P =	0.32)					0.5 0.7 1 1.5 2 Favours Ivabradine Favours Placebo

1.12 Without limiting angina - Cardiac death - median 18 months

	Experime	ental	Contr	ol		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% CI
Fox 2009 (BEAUTIFUL)	125	4745	135	4665	100.0%	0.91 [0.72, 1.16]	-
Total (95% CI)		4745		4665	100.0%	0.91 [0.72, 1.16]	•
Total events	125		135				
Heterogeneity: Not applica	able						
Test for overall effect: Z =	0.77 (P = 0	0.44)					0.2 0.5 1 2 5 Favours Ivabradine Favours Placebo

1.13 Without limiting angina - hospitalisation for HF- median 18 months

	Experime	ntal	Contr	ol		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% Cl
Fox 2009 (BEAUTIFUL)	393	4745	386	4665	100.0%	1.00 [0.87, 1.15]	•
Total (95% CI)		4745		4665	100.0%	1.00 [0.87, 1.15]	•
Total events	393		386				
Heterogeneity: Not applicate Test for overall effect: Z =		.99)					0.5 0.7 1 1.5 2 Favours lyabradine Favours Placebo

${\bf 1.14\ Without\ limiting\ angina-Hospitalisation\ for\ MI\ or\ unstable\ angina-median\ 18\ months}$

	Ivabrad	line	Palce	bo		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% CI
Fox 2009 (BEAUTIFUL)	247	4745	252	4665	100.0%	0.96 [0.81, 1.14]	_
Total (95% CI)		4745		4665	100.0%	0.96 [0.81, 1.14]	*
Total events	247		252				
Heterogeneity: Not applica		o o=\					0.2 0.5 1 2 5
Test for overall effect: Z =	0.43 (P = 0.43)	0.67)					Favours Ivabradine Favours Placebo

1.15 All serious adverse events

	Ivabrac	dine	Place	bo		Risk Ratio		Risk R	atio	
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI		M-H, Fixed	, 95% CI	
Fox 2009 (BEAUTIFUL)	135	734	144	773	100.0%	0.99 [0.80, 1.22]		-	-	
Total (95% CI)		734		773	100.0%	0.99 [0.80, 1.22]		•	•	
Total events	135		144							
Heterogeneity: Not applica							0.2	0.5 1	2	
Test for overall effect: Z =	0.12 (P =	0.91)					Favours Iv		Favours Pla	acebo

2 Ivabradine vs atenolol

2.1 Total exercise duration (sec)(trough change from baseline) - 16 weeks

	lval	oradir	ne	Α	tenolol			Mean Difference		Mea	an Differe	nce	
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI		IV,	Fixed, 959	% CI	
Tardif 2005	86.8	129	300	78.8	133.4	286	100.0%	8.00 [-13.26, 29.26]				_	
Total (95% CI)			300			286	100.0%	8.00 [-13.26, 29.26]				-	
Heterogeneity: Not ap Test for overall effect:	'	(P =	0.46)						-100 Fav	-50 ours ater	0 nolol Fav	50 ours ivat	100 oradine

2.2 Time to angina onset (sec) (trough change from baseline) - 16 weeks

	lva	bradin	е	Α	tenolol			Mean Difference	Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI	IV, Fixed, 95% CI
Tardif 2005	145.2	153.4	300	135.2	154.7	286	100.0%	10.00 [-14.96, 34.96]	
Total (95% CI)			300			286	100.0%	10.00 [-14.96, 34.96]	•
Heterogeneity: Not ap Test for overall effect	') (P = 0.	43)						-100 -50 0 50 100 Favours atenolol Favours ivabradine

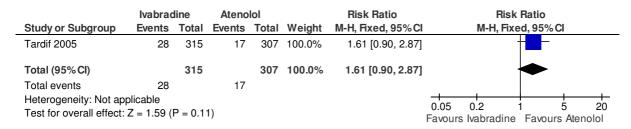
2.3 Weekly number of angina attacks - 16 weeks

	lvab	radir	ne	At	enolo	l		Mean Difference	Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI	IV, Fixed, 95% CI
Tardif 2005	-2.2	4.4	307	-2.7	12.3	294	100.0%	0.50 [-0.99, 1.99]	-
Total (95% CI)			307			294	100.0%	0.50 [-0.99, 1.99]	•
Heterogeneity: Not ap	•	(D	0.51)						-4 -2 0 2 4
Test for overall effect:	Z = 0.66	(P =	0.51)						Favours ivabradine Favours atenolol

2.4 Short-acting nitrate consumption units/week - 16 weeks

	lvab	oradir	ne	At	enolo	ol		Mean Difference		Mean	Differe	ence	
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI		IV, Fix	ced, 95°	%CI	
Tardif 2005	-1.6	4.1	307	-1.2	3.4	294	100.0%	-0.40 [-1.00, 0.20]			+		
Total (95% CI)			307			294	100.0%	-0.40 [-1.00, 0.20]		4			
Heterogeneity: Not appress for overall effect:		(P =	0.19)						-2 Favour	-1 rs ivabradir	0 ne Fav	1 vours ate	2 nolol

2.5 Withdrawal due to AEs-16 weeks



3 Ivabradine +atenolol vs atenolol+ placebo

3.1 Total exercise duration (sec) (change from baseline) - 2 months

	Ivabradin	e + ater	nolol	at	enolol			Mean Difference	Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI	IV, Fixed, 95% CI
Tardif 2009	15.5	60	441	6.8	56.5	434	100.0%	8.70 [0.98, 16.42]	-
Total (95% CI)			441			434	100.0%	8.70 [0.98, 16.42]	•
Heterogeneity: Not ap Test for overall effect:	•	= 0.03)							-20 -10 0 10 20 Favours atenolol Favours ivabradine

3.2 Time to angina onset (sec) (change from baseline) - 2 mths

	Ivabradi	ne + ater	nolol	at	enolo	I		Mean Difference		Mean	Difference	
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI		IV, Fix	red, 95% CI	
Tardif 2009	30.2	72.2	441	17.2	72.3	434	100.0%	13.00 [3.43, 22.57]			-	
Total (95% CI)			441			434	100.0%	13.00 [3.43, 22.57]			•	
Heterogeneity: Not ap Test for overall effect:	•	= 0.008)							-50 Favo	-25 urs atenol	0 25 ol Favours iv	50 abradine

3.3 Time to 1 mm S depression (sec) (change from baseline)- 2months

	Ivabradii	ne + ater	nolol	at	enolol	l		Mean Difference		Mea	n Differe	nce	
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI		IV, I	Fixed, 95%	% CI	
Tardif 2009	35	84.1	441	7.8	82.6	434	100.0%	27.20 [16.15, 38.25]			1	-	
Total (95% CI)			441			434	100.0%	27.20 [16.15, 38.25]			- ∢	•	
Heterogeneity: Not ap Test for overall effect:	•	< 0.0000	01)						-100 Fa	-50 vours aten	0 olol Fav	50 ours ivat	100 oradine

3.4 Total exercise duration (sec) (change from baseline-4 months

	lvabradir	ne + ater	olol	at	enolo	I		Mean Difference	Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI	IV, Fixed, 95% CI
Tardif 2009	24.3	65.3	441	7.7	63.8	434	100.0%	16.60 [8.05, 25.15]	-
Total (95% CI)			441			434	100.0%	16.60 [8.05, 25.15]	•
Heterogeneity: Not appropriate the Test for overall effect:		= 0.0001)						-20 -10 0 10 20 Favours atenolol Favours ivabradine

3.5 Time to onset of angina(sec) (change from baseline) - 4 months

	lvabradii	ne + ater	olol	at	enolo	l		Mean Difference		Mea	an Differe	nce	
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI		IV,	Fixed, 95%	6 CI	
Tardif 2009	49.1	83.3	441	22.7	79.1	434	100.0%	26.40 [15.64, 37.16]			- -	-	
Total (95% CI)			441			434	100.0%	26.40 [15.64, 37.16]			- ∢	•	
Heterogeneity: Not app Test for overall effect:		< 0.0000	11)						-100 Favo	-50 ours ater	0 nolol Favo	50 ours ivab	100 oradine

3.6 Time to 1 mm ST depression (sec) (change from baseline-4 months

	lvabradin	e + ater	olol	at	enolol			Mean Difference		Mea	n Differe	nce	
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI		IV, I	ixed, 95%	6 CI	
Tardif 2009	45.7	93	441	15.4	86.6	434	100.0%	30.30 [18.40, 42.20]			-	_	
Total (95% CI)			441			434	100.0%	30.30 [18.40, 42.20]			- •	•	
Heterogeneity: Not ap Test for overall effect:		< 0.0000	1)						-100 Fav	-50 ours aten	0 olol Favo	50 ours ivab	100 oradine

3.7 angina attacks/week

lvabradine + a		e + atei	enolol atenolol+placebo					Mean Difference	Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI	IV, Fixed, 95% CI
Tardif 2009	0.9	2.4	441	0.9	2.1	434	100.0%	0.00 [-0.30, 0.30]	1
Total (95% CI)			441			434	100.0%	0.00 [-0.30, 0.30]	1
Heterogeneity: Not ap Test for overall effect:	•	= 1.00)							-2 -1 0 1 2 Favours lyabradine Favours atenolol

3.8 Adverse events (4 months)

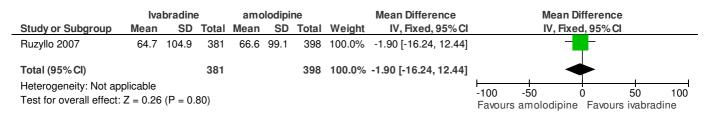
	Ivabradine + ate	nolol	ateno	lol		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% Cl
Tardif 2009	13	441	4	434	100.0%	3.20 [1.05, 9.73]	
Total (95% CI)		441		434	100.0%	3.20 [1.05, 9.73]	•
Total events	13		4				
Heterogeneity: Not ap Test for overall effect:	•						0.01 0.1 1 10 100 Favours Ivabradine Favours atenolol

4 Ivabradine vs amolodipine

4.1 Total exercise duration (sec) - 3 months

	Ival	bradin	е	amo	lodipi	ne		Mean Difference		Me	an Differe	nce	
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI		IV,	Fixed, 95%	6CI	
Ruzyllo 2007	27.6	91.7	381	31.2	92	398	100.0%	-3.60 [-16.50, 9.30]			-		
Total (95% CI)			381			398	100.0%	-3.60 [-16.50, 9.30]			•		
Heterogeneity: Not ap Test for overall effect:	•	5 (P = 0	0.58)						-100 Favou	-50 rs amolod	0 ipine Favo	50 ours ivabra	100 adine

4.2 Time angina onset (sec) - 3 months



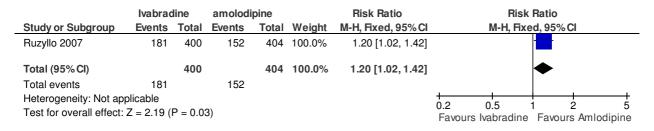
4.3 Short-acting nitrate use (units/week) - 3 months

	lvab	oradir	ne	amo	lodipi	ne		Mean Difference		Mea	n Differe	nce		
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI		IV, F	ixed, 95	% CI		
Ruzyllo 2007	-1.9	4.5	389	-2.7	6.3	398	100.0%	0.80 [0.04, 1.56]				F		
Total (95% CI)			389			398	100.0%	0.80 [0.04, 1.56]			•	>		
Heterogeneity: Not ap Test for overall effect:	•	(P =	0.04)						-4 Favou	-2 irs ivabrad	0 ine Fav	2 ours ar	4 molodipii	- ne

4.4 Frequency of angina attacks/week - 3 months

	lvab	radir	ne	amo	lodipi	ne		Mean Difference	Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI	IV, Fixed, 95% CI
Ruzyllo 2007	-3	5	389	-3	6	398	100.0%	0.00 [-0.77, 0.77]	— <mark>—</mark> —
Total (95% CI)			389			398	100.0%	0.00 [-0.77, 0.77]	•
Heterogeneity: Not ap Test for overall effect:	•	(P =	1.00)						-2 -1 0 1 2 Favours ivabradine Favours amolodipine

4.5 Adverse events - 3 months



1 Nicorandil vs. Placebo (Follow-up 1.6 years)

1.1 CHD death

	Nicora	ndil	Place	bo		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% Cl	M-H, Fixed, 95% Cl
IONA (2002)	60	2565	73	2561	100.0%	0.82 [0.59, 1.15]	-
Total (95% CI)		2565		2561	100.0%	0.82 [0.59, 1.15]	•
Total events	60		73				
Heterogeneity: Not app	olicable						0.5 0.7 1 1.5 2
Test for overall effect:	Z = 1.15 (P = 0.2	5)				Favours Nicorandil Favours placebo

1.2 Non fatal MI

	Nicora	ndil	Place	bo		Risk Ratio		Risk	Ratio		
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% C		M-H, Fix	ed, 95%	6CI	
IONA (2002)	56	2565	72	2561	100.0%	0.78 [0.55, 1.10]		_	†		
Total (95% CI)		2565		2561	100.0%	0.78 [0.55, 1.10]		•			
Total events	56		72								
Heterogeneity: Not app			_\				0.2	0.5	1	2	
Test for overall effect:	∠ = 1.44 (P = 0.13	5)				Favours	Nicorandil	Favo	urs pla	acebo

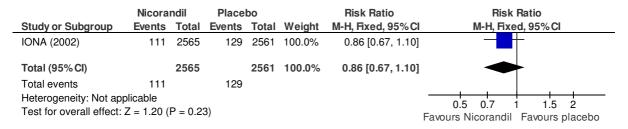
1.3 Unstable Angina

	Nicora	ndil	Place	bo		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% C	M-H, Fixed, 95% CI
IONA (2002)	115	2565	127	2561	100.0%	0.90 [0.71, 1.16]	
Total (95% CI)		2565		2561	100.0%	0.90 [0.71, 1.16]	•
Total events	115		127				
Heterogeneity: Not ap	plicable						05 07 1 15 0
Test for overall effect:	Z = 0.80 (P = 0.42	2)				0.5 0.7 1 1.5 2 Favours Nicorandil Favours placebo

1.4 All cardiovascular events

	Nicora	ndil	Place	bo		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% Cl	M-H, Fixed, 95% CI
IONA (2002)	378	2565	436	2561	100.0%	0.87 [0.76, 0.98]	-
Total (95% CI)		2565		2561	100.0%	0.87 [0.76, 0.98]	•
Total events	378		436				
Heterogeneity: Not app	olicable						0.5 0.7 1 1.5 2
Test for overall effect:	Z = 2.24 (P = 0.03	3)				0.5 0.7 1 1.5 2 Favours Nicorandil Favours Placebo

1.5 All cause mortality



1.6 Worsening of angina status

	Nicora	ndil	Place	bo		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% Cl	M-H, Fixed, 95% CI
IONA (2002)	569	2565	602	2561	100.0%	0.94 [0.85, 1.04]	-
Total (95% CI)		2565		2561	100.0%	0.94 [0.85, 1.04]	•
Total events	569		602				
Heterogeneity: Not app	olicable						0.5 0.7 1 1.5 2
Test for overall effect:	Z = 1.13 (P = 0.20	6)				Favours Nicorandil Favours Placebo

1.7 Gl disturbances

	Nicora	ndil	Place	bo		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% Cl	M-H, Fixed, 95% CI
IONA (2002)	194	2565	132	2561	100.0%	1.47 [1.18, 1.82]	-
Total (95% CI)		2565		2561	100.0%	1.47 [1.18, 1.82]	•
Total events	194		132				
Heterogeneity: Not app	olicable						0.5 0.7 1 1.5 2
Test for overall effect:	Z = 3.51 (P = 0.00	005)				0.5 0.7 1 1.5 2 Favours Nicorandil Favours Placebo

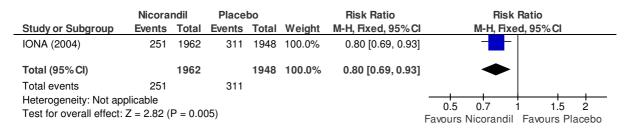
1.8 Combined outcome (diabetes subgroup)

	Nicora	ndil	Place	bo		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% C	I M-H, Fixed, 95% CI
IONA (2004)	27	197	40	232	100.0%	0.79 [0.51, 1.25]	-
Total (95% CI)		197		232	100.0%	0.79 [0.51, 1.25]	
Total events	27		40				
Heterogeneity: Not appropriate the Test for overall effect:		P = 0.3	2)				0.2 0.5 1 2 5 Favours Nicorandil Favours Placebo

1.9 Combined outcomes (age subgroup >70 yrs)

	Nicora	ndil	Place	bo		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% C	M-H, Fixed, 95% CI
IONA (2004)	131	927	167	948	100.0%	0.80 [0.65, 0.99]	-
Total (95% CI)		927		948	100.0%	0.80 [0.65, 0.99]	•
Total events	131		167				
Heterogeneity: Not ap	plicable						0.5 0.7 1 1.5 2
Test for overall effect:	Z = 2.06 (P = 0.04	4)				Favours Nicorandil Favours Placebo

1.10 combined outcomes (male subgroup)



1.11 Combined outcomes (female subgroup)

	Nicora	ndil	Place	bo		Risk Ratio	Risk Ratio			
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% Cl	M-H, Fixed, 95% Cl			
IONA (2004)	86	603	87	613	100.0%	1.00 [0.76, 1.32]	-			
Total (95% CI)		603		613	100.0%	1.00 [0.76, 1.32]	*			
Total events	86		87							
Heterogeneity: Not app	plicable			0.5 0.7 1 1.5 2						
Test for overall effect:	Z = 0.03 (P = 0.9		Favours Nicorandil Favours Placebo						

1.12 Composite (CHD death,non fatal MI or hospital adm. for chest pain)

	Nicorandil		corandil Placebo			Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% C	M-H, Fixed, 95% CI
IONA (2002)	337	2565	398	2561	100.0%	0.85 [0.74, 0.97]	1 -
Total (95% CI)		2565		2561	100.0%	0.85 [0.74, 0.97]	1
Total events	337		398				
Heterogeneity: Not ap	•	D 0.0	4.\				0.5 0.7 1 1.5 2
Test for overall effect:	Z = 2.45 (P = 0.0	1)				Favours Nicorandil Favours Placebo

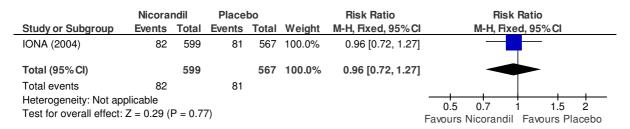
1.13 composite (CHD death or non fatal MI)

	Nicorandil		Place	bo		Risk Ratio	Risk Ratio				
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% C	M-H, Fixed, 95% CI				
IONA (2002)	107	2565	134	2561	100.0%	0.80 [0.62, 1.02]	-				
Total (95% CI)		2565		2561	100.0%	0.80 [0.62, 1.02]	•				
Total events	107		134								
Heterogeneity: Not app	plicable						0.5 0.7 1 1.5 2				
Test for overall effect:	Z = 1.79 (P = 0.0	7)				Favours Nicorandil Favours Placebo				

1.14 Compiste (CHD death, non fatal MI, or unstable angina)

	Nicorandil		Place	bo		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% C	M-H, Fixed, 95% CI
IONA (2002)	156	2565	195	2561	100.0%	0.80 [0.65, 0.98]	_
Total (95% CI)		2565		2561	100.0%	0.80 [0.65, 0.98]	•
Total events	156		195				
Heterogeneity: Not app	plicable						0.5 0.7 1 1.5 2
Test for overall effect:	Z = 2.17 (P = 0.03	3)				Favours Nicorandil Favours Placebo

1.15 Combined outcome (age subgroup 65-70 yrs)



1.16 Combined outcomes (age subgroup <65 yrs)

	Nicora	ndil	Place	bo		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% CI
IONA (2004)	124	1039	150	1046	100.0%	0.83 [0.67, 1.04]	
Total (95% CI)		1039		1046	100.0%	0.83 [0.67, 1.04]	
Total events	124		150				
Heterogeneity: Not app Test for overall effect: 2		P = 0.10	0)				0.5 0.7 1 1.5 2 Favours Nicorandil Favours Placebo

1.17 Headache

	Nicorandil		Placebo		Risk Ratio		Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% CI
IONA (2002)	364	2565	81	2561	100.0%	4.49 [3.55, 5.67]	
Total (95% CI)		2565		2561	100.0%	4.49 [3.55, 5.67]	•
Total events	364		81				
Heterogeneity: Not app	olicable					0.1 0.2 0.5 1 2 5 10	
Test for overall effect:	Z = 12.55	(P < 0.0	00001)				Favours Nicorandil Favours Placebo

2 Nicorandil vs. Diltiazem (Follow-up 90 days)

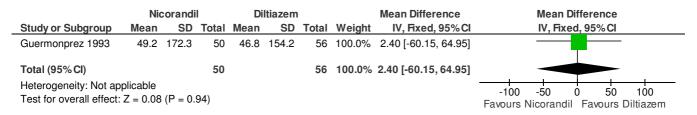
2.1 Excercise capacity (work to angina onset)

	Nie	corandi	I	Di	ltiazem			Mean Difference		Mear	Differ	ence	
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI		IV, Fi	xed, 95	% CI	
Guermonprez 1993	48.1	174.7	50	44.7	149.7	56	100.0%	3.40 [-58.91, 65.71]					
Total (95% CI)			50			56	100.0%	3.40 [-58.91, 65.71]					
Heterogeneity: Not ap Test for overall effect:	•	(P = 0.	91)						-100 Favours N	-50 Nicoran	0 dil Fa	50 vours E	100 Diltiazem

2.2 Excercise capacity (work to ischemic threshold)

	Nicorandil		Di	ltiazem			Mean Difference	Mean Difference				
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI	IV, Fixed, 95% CI			
Guermonprez 1993	38.7	171.1	50	37.8	145.2	56	100.0%	0.90 [-59.89, 61.69]				
Total (95% CI)			50			56	100.0%	0.90 [-59.89, 61.69]				
Heterogeneity: Not ap Test for overall effect:	•	B (P = 0.	98)						-100 -50 0 50 100 Favours Nicorandil Favours Diltiazem			

2.3 Excercise capacity (work to peak excercise)



2.4 Adverse events (combined)

	Nicora	ndil	Diltiaz	em		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% CI
Guermonprez 1993	19	60	19	63	100.0%	1.05 [0.62, 1.78]	-
Total (95% CI)		60		63	100.0%	1.05 [0.62, 1.78]	*
Total events	19		19				
Heterogeneity: Not ap	plicable						0.1 0.2 0.5 1 2 5 10
Test for overall effect:	Z = 0.18 (P = 0.80	6)				0.1 0.2 0.5 1 2 5 10 Favours Nicorandil Favours Diltiazem

3 Nicorandil vs. Amlodipine (Follow-up 8 weeks)

3.1 ETT (Time to ST-segment depression)

	Expe	rimen	tal	Co	ontro	I		Mean Difference	Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI	IV, Fixed, 95% CI
Chatterjee 1999	5.1	2.3	56	5.7	2.4	62	100.0%	-0.60 [-1.45, 0.25]	
Total (95% CI)			56			62	100.0%	-0.60 [-1.45, 0.25]	
Heterogeneity: Not ap Test for overall effect:	•	(P = 0).17)						-1 -2 -1 0 1 2 Favours Nicorandil Favours Amlodipine

3.2 ETT (Time to onset of anginal pain)

	Exper	rimen	tal	Co	ontro	l		Mean Difference	Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI	IV, Fixed, 95% CI
Chatterjee 1999	6.1	3	56	7	3.1	62	100.0%	-0.90 [-2.00, 0.20]	
Total (95% CI)			56			62	100.0%	-0.90 [-2.00, 0.20]	
Heterogeneity: Not ap Test for overall effect:	•	(P = 0	0.11)						-2 -1 0 1 2 Favours Amlodipine Favours Nicorandil

3.3 ETT (Total excercise duration)

	Nice	orano	lil	Aml	odipir	ne		Mean Difference	Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI	IV, Fixed, 95% Cl
Chatterjee 1999	7.2	3	56	7.9	2.4	62	100.0%	-0.70 [-1.69, 0.29]	
Total (95% CI)			56			62	100.0%	-0.70 [-1.69, 0.29]	
Heterogeneity: Not ap Test for overall effect:	•	(P =	0.16)						-2 -1 0 1 2 Favours Amlodipine Favours Nicorandil

3.4 ETT (Segment depression at maximal identical workload)

	Nice	orano	lil	Aml	odipii	ne		Mean Difference	Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI	IV, Fixed, 95% CI
Chatterjee 1999	0.13	0.1	56	0.12	0.1	62	100.0%	0.01 [-0.03, 0.05]	-
Total (95% CI)			56			62	100.0%	0.01 [-0.03, 0.05]	
Heterogeneity: Not ap Test for overall effect:	•	(P =	0.59)						-0.1 -0.05 0 0.05 0.1 Favours Nicorandil Favours Amlodipine

3.5 Sum of weekly anginal attacks

	Nice	orano	lil	Aml	odipir	ne		Mean Difference		Me	ean Diffe	rence	
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI		IV	, Fixed, 9	5% CI	
Chatterjee 1999	2.1	2	56	0.9	1.6	62	100.0%	1.20 [0.54, 1.86]					
Total (95% CI)			56			62	100.0%	1.20 [0.54, 1.86]					>
Heterogeneity: Not ap Test for overall effect:	•	(P =	0.0004	.)					-2 Favo	-1 urs Nico	0 andil Fa	1 avours	2 Amlodipine

3.6 Adverse events (combined)

	Nicora	ndil	Amlodi	pine		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% Cl
Chatterjee 1999	20	57	20	64	100.0%	1.12 [0.68, 1.86]	-
Total (95% CI)		57		64	100.0%	1.12 [0.68, 1.86]	
Total events	20		20				
Heterogeneity: Not ap Test for overall effect:	•	P = 0.6	5)				0.2 0.5 1 2 5 Favours Nicorandil Favours Amlodipine

4 Nicorandil vs. Nifedipine (Follow-up immediately after 8 weeks of treatment)

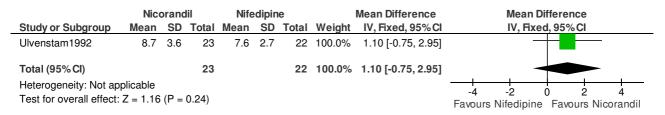
4.1 Weekly anginal attack rate

	Nice	orano	lil	Nife	dipin	ie		Mean Difference	Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI	IV, Fixed, 95% CI
Ulvenstam1992	2.1	2.1	27	7.4	15	23	100.0%	-5.30 [-11.48, 0.88]	
Total (95% CI)			27			23	100.0%	-5.30 [-11.48, 0.88]	
Heterogeneity: Not ap Test for overall effect:	•	(P =	0.09)						-10 -5 0 5 10 Favours Nicorandil Favours Nifedipine

4.2 Exercise duration (min)

	Nice	orano	lil	Nife	dipin	ie		Mean Difference	Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI	IV, Fixed, 95% CI
Ulvenstam1992	11.4	3.2	25	10.4	2.4	23	100.0%	1.00 [-0.59, 2.59]	
Total (95% CI)			25			23	100.0%	1.00 [-0.59, 2.59]	
Heterogeneity: Not ap Test for overall effect:	•	(P =	0.22)						-4 -2 0 2 4 Favours Nifedipine Favours Nicorandil

4.3 Time to onset of angina pectoris (min)



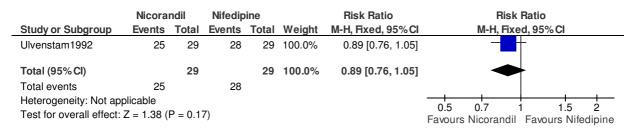
4.4 Time to 1mm ST-depression (min)

	Nic	orand	lil	Nife	dipin	e		Mean Difference	Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI	IV, Fixed, 95% CI
Ulvenstam1992	8	3.2	23	6.4	2.2	20	100.0%	1.60 [-0.02, 3.22]	-
Total (95% CI)			23			20	100.0%	1.60 [-0.02, 3.22]	
Heterogeneity: Not ap Test for overall effect:		(P =	0.05)						-4 -2 0 2 4 Favours Nifedipine Favours Nicorandil

4.5 ST depression on maximal identical workload (mm)

	Nic	orand	il	Nife	edipin	е		Mean Difference	Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI	IV, Fixed, 95% CI
Ulvenstam1992	1.9	0.89	24	1.7	0.75	20	100.0%	0.20 [-0.28, 0.68]	
Total (95% CI)			24			20	100.0%	0.20 [-0.28, 0.68]	
Heterogeneity: Not ap Test for overall effect	•	(P = 0	0.42)						-1 -0.5 0 0.5 1 Favours Nicorandil Favours Nifedipine

4.6 Adverse events (combined)



5 Nicorandil vs. ISMN (Follow-up 2 weeks)

5.1 ETT (Time to ST-depression)

	Nic	orandi	I		ISMN			Mean Difference	Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% Cl	IV, Fixed, 95% CI
Zhu 2007	392.8	169.1	114	390.4	141.9	116	100.0%	2.40 [-37.98, 42.78]	
Total (95% CI)			114			116	100.0%	2.40 [-37.98, 42.78]	
Heterogeneity: Not ap Test for overall effect:	•	(P = 0.	91)						-50 -25 0 25 50 Favours Nicorandil Favours ISMN

5.2 ETT (Total excercise time)

	Nic	corandi	I		ISMN			Mean Difference	Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI	IV, Fixed, 95% CI
Zhu 2007	439.7	135.2	115	442.9	129.4	117	100.0%	-3.20 [-37.26, 30.86]	_
Total (95% CI)			115			117	100.0%	-3.20 [-37.26, 30.86]	
Heterogeneity: Not ap Test for overall effect:	•	(P = 0.	85)					-	-50 -25 0 25 50 Favours ISMN Favours Nicorandil

5.3 ETT (Time to onset of chest pain)

	Nic	corandi	I		ISMN			Mean Difference	Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI	IV, Fixed, 95% CI
Zhu 2007	408.2	137.1	37	418.6	119.2	37	100.0%	-10.40 [-68.94, 48.14]	
Total (95% CI)			37			37	100.0%	-10.40 [-68.94, 48.14]	
Heterogeneity: Not ap Test for overall effect:	•	i (P = 0.	73)					•	-100 -50 0 50 100 Favours ISMN Favours Nicorandil

5.4 Adverse event (Headache)



Nicorandil versus propanolol for stable angina

1 Nicorandil vs propanalol (Follow-up 6 weeks)

1.1 Angina free in daily life

	Nicora	ndil	Propan	olol		Risk Ratio					
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI		M-H, Fix	ed, 95	% CI	
Meeter 1992	11	32	13	37	100.0%	0.98 [0.51, 1.87]		_			
Total (95% CI)		32		37	100.0%	0.98 [0.51, 1.87]		•			
Total events	11		13								
Heterogeneity: Not ap	plicable						0.05	0.2	+-	5	20
Test for overall effect:	Z = 0.07 (P = 0.9	5)					0.2 spropanolo	l Favo	-	

1.2 12 hrs after medication - change in maximal work load (W) (baseline vs 3 weeks)

	Nice	orano	lil	Proj	panol	lol		Mean Difference	Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI	IV, Fixed, 95% CI
Meeter 1992	-1	19	32	5	18	37	100.0%	-6.00 [-14.77, 2.77]	-
Total (95% CI)			32			37	100.0%	-6.00 [-14.77, 2.77]	•
Heterogeneity: Not ap Test for overall effect:	•	(P =	0.18)						-20 -10 0 10 20 Favours nicorandil Favours Propranolol

1.3 12 hrs after medication - change in maximal work load (W) - baseline vs 6 wks

	Nice	orand	lil	Pro	pano	lol		Mean Difference	Mean Difference				
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI		IV, Fi	xed, 95%	%CI	
Meeter 1992	1	24	32	6	21	37	100.0%	-5.00 [-15.72, 5.72]		-			
Total (95% CI)			32			37	100.0%	-5.00 [-15.72, 5.72]		⋖			
Heterogeneity: Not ap Test for overall effect:	•	(P =	0.36)						-50 Fa	-25 vours Nicoran	0 dil Favo	25 ours Propra	50 anolol

1.4 12 hrs after medication - change in time to angina decimal min (baseline vs 3wks)

	Nice	orano	lil	Pro	panol	ol		Mean Difference	Mean Difference				
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI		IV,	Fixed, 95°	% CI	
Meeter 1992	0.4	2	32	0.5	2	37	100.0%	-0.10 [-1.05, 0.85]			-		
Total (95% CI)			32			37	100.0%	-0.10 [-1.05, 0.85]			•		
Heterogeneity: Not ap Test for overall effect:	•	(P =	0.84)						-4 Favour	-2 rs propar	0 nolol Fav	2 ours nico	4 orandil

1.5 12 hrs after medication - change in time to angina (baseline vs 6 wks)

	Nicorano					ol		Mean Difference	Mean Difference				
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI	IV, Fixed, 95% CI				
Meeter 1992	0.4	2	32	8.0	2	37	100.0%	-0.40 [-1.35, 0.55]					
Total (95% CI)			32			37	100.0%	-0.40 [-1.35, 0.55]					
Heterogeneity: Not ap Test for overall effect:	•	(P =	0.41)						-4 -2 0 2 4 Favours propanolol Favours nicorandil				

Nicorandil versus propanolol for stable angina

1.6 2 hrs after medication - change in maximal work load (W) (baseline vs 3ks)

	Nice	orand	lil	Pro	pano	lol		Mean Difference	Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI	IV, Fixed, 95% CI
Meeter 1992	3	14	32	8	20	37	100.0%	-5.00 [-13.07, 3.07]	
Total (95% CI)			32			37	100.0%	-5.00 [-13.07, 3.07]	
Heterogeneity: Not ap Test for overall effect:	•	(P =	0.22)						-20 -10 0 10 20 Favours Nicorandil Favours Propranolol

1.7 2 hrs after medication - change in maximal work load (W) (baseline vs 6 wks)

	Nice	orand	lil	Pro	pano	lol		Mean Difference	Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI	IV, Fixed, 95% CI
Meeter 1992	4	17	32	9	23	37	100.0%	-5.00 [-14.47, 4.47]	
Total (95% CI)			32			37	100.0%	-5.00 [-14.47, 4.47]	
Heterogeneity: Not ap	'	(P =	0.30)						-20 -10 0 10 20 Favours Nicorandil Favours Propranolol

1.8 2 hrs after medication time to angina

	Nice	orano	lil	Pro	Propanolol			Mean Difference	Mean Difference				
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI		IV, Fix	ed, 95%	CI	
Meeter 1992	1	1	32	8.0	2	37	100.0%	0.20 [-0.53, 0.93]		_		_	
Total (95% CI)			32			37	100.0%	0.20 [-0.53, 0.93]		•		-	
Heterogeneity: Not ap Test for overall effect	•	(P =	0.59)						-2 Favours	-1 Propranolo	0 ol Favoi	1 urs Nic	2 ocrandil

1.9 2 hrs after medication time to angina

	Nicorandil			Pro	panol	lol		Mean Difference	Mean Difference			
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI	IV, Fixed, 95% CI			
Meeter 1992	1.5	2	32	0.9	2	37	100.0%	0.60 [-0.35, 1.55]	+-			
Total (95% CI)			32			37	100.0%	0.60 [-0.35, 1.55]				
Heterogeneity: Not ap Test for overall effect:	•	(P =	0.21)						-2 -1 0 1 2 Favours Propranolol Favours Niocorandil			

1 Ranolazine (750 mg bid) + antianginal vs Placebo + antianginal (Follow-up 12 weeks)

1.1 Exercise duration (trough - change from baseline), s - 12 wks

	Ra	nolazine	•	Р	lacebo			Mean Difference		Mea	ın Differer	ıce	
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI		IV, I	Fixed, 95%	CI	
Chaitman (CARISA) 2004	115.4	131.92	272	91.7	133.3	258	100.0%	23.70 [1.11, 46.29]				_	
Total (95% CI)			272			258	100.0%	23.70 [1.11, 46.29]			4	>	
Heterogeneity: Not applicable Test for overall effect: $Z=2$		0.04)							-100 Fav	-50 ours plac	0 ebo Favo	50 ours rano	100 lazine

1.2 Time to onset of angina (trough - change from baseline) s - 12 wks

	Ranolazine			F	Placebo			Mean Difference	Mean Difference				
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI		IV,	Fixed, 95%	6CI	
Chaitman (CARISA) 2004	144	146.76	272	114.3	147.75	258	100.0%	29.70 [4.62, 54.78]					
Total (95% CI)			272			258	100.0%	29.70 [4.62, 54.78]			-		
Heterogeneity: Not applicab Test for overall effect: Z = 2.		0.02)							-100 Fav	-50 ours plac	0 ebo Favo	50 ours rano	100 lazine

1.3 Exercise duration (peak - change from baseline) s - 12 wks

	Ra	nolazine Placebo				Mean Difference	Mean Difference						
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI		IV, F	Fixed, 9	5% CI	
Chaitman (CARISA) 2004	99.4	128.15	270	65.4	129.6	256	100.0%	34.00 [11.96, 56.04]			-		
Total (95% CI)			270			256	100.0%	34.00 [11.96, 56.04]			-	~	
Heterogeneity: Not applicab Test for overall effect: $Z = 3$		0.002)							-100 Favo	-50 ours plac	0 ebo Fa	50 avours rar	100 nolazine

1.4 Time to onset of angina (peak - change from baseline) s - 12 wks

	Ra	Ranolazine Placebo			lacebo	ebo Mean Difference				Mean Difference			
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI		IV, F	ixed, 95	% CI	
Chaitman (CARISA) 2004	126.9	149.51	272	88.9	132.8	256	100.0%	38.00 [13.91, 62.09]			-		
Total (95% CI)			272			256	100.0%	38.00 [13.91, 62.09]			-		
Heterogeneity: Not applicab Test for overall effect: $Z = 3$		0.002)							-100 Fav	-50 ours place	0 ebo Fav	50 vours rano	100 lazine

1.5 Adverse events

	Ranola	zine	Place	bo		Risk Ratio	Risk Ratio					
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% Cl					
Chaitman (CARISA) 2004	82	279	71	269	100.0%	1.11 [0.85, 1.46]	_					
Total (95% CI)		279		269	100.0%	1.11 [0.85, 1.46]						
Total events	82		71									
Heterogeneity: Not applicab Test for overall effect: $Z = 0$.		44)					0.5 0.7 1 1.5 2 Favours Ranolazine Favours placebo					

1.6 Angina attacks per week

	Ranola				Placebo			Mean Difference	Mean Difference				
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI		IV, Fix	ced, 9	95% CI	
Chaitman (CARISA) 2004	2.5	3.3	272	3.3	4.9	258	100.0%	-0.80 [-1.52, -0.08]	_				
Total (95% CI)			272			258	100.0%	-0.80 [-1.52, -0.08]	-		-		
Heterogeneity: Not applicable Test for overall effect: $Z = 2$		0.03)							-2 Favours	-1 Ranolazir	0 ne F	1 avours pl	2 acebo

- 2 Ranolazine (750 mg bid) + antianginal treatment vs Placebo+antianginal treatment diabetic patients (Follow-up 12 weeks)
- 2.1 Exercise duration (trough change from baseline) s 12 wks

	Ra	nolazine	•	Placebo Mean Difference					Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI	IV, Fixed, 95% CI
Timmis (CARISA) 2006	114.1	213.13	68	85.4	236.5	57	100.0%	28.70 [-50.90, 108.30]	_
Total (95% CI)			68			57	100.0%	28.70 [-50.90, 108.30]	
Heterogeneity: Not applic Test for overall effect: Z =		9 = 0.48)							-200 -100 0 100 200 Favours placebo Favours ranolazine

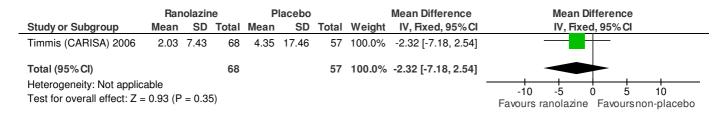
2.2 Time to onset of angina (trough change from baseline) s - 12 wks

	Ranolazine							Mean Difference	Mean Difference
Study or Subgroup	Mean	SD					Weight	IV, Fixed, 95% CI	IV, Fixed, 95% CI
Timmis (CARISA) 2006	145.7	236.5	68	94.9	262.63	57	100.0%	50.80 [-37.56, 139.16]	+
Total (95% CI)			68			57	100.0%	50.80 [-37.56, 139.16]	
Heterogeneity: Not applic Test for overall effect: Z =		= 0.26)							-200 -100 0 100 200 Favours placebo Favours ranolazine

2.3 Angina episodes per week - 12 wks

					ceb	0		Mean Difference	Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI	IV, Fixed, 95% CI
Timmis (CARISA) 2006	2.08	5.09	68	2.99	7.7	57	100.0%	-0.91 [-3.25, 1.43]	
Total (95% CI)			68			57	100.0%	-0.91 [-3.25, 1.43]	
Heterogeneity: Not applic Test for overall effect: Z =		= 0.4	5)						-4 -2 0 2 4 Favours ranolazine Favours placebo

2.4 Nitroglycerin consumption per week - 12 wks



3 Ranolazine (1000 mg bid) + antianginal treatment vs Placebo +antianginal treatment- age (Follow-up 6 weeks)

3.1 Adverse events<70 years

	Ranola	zine	Place	bo		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% C	M-H, Fixed, 95% CI
Rich (CARISA) 2007	194	604	131	420	100.0%	1.03 [0.86, 1.24]	
Total (95% CI)		604		420	100.0%	1.03 [0.86, 1.24]	•
Total events	194		131				
Heterogeneity: Not app	plicable						0.5 0.7 1 1.5 2
Test for overall effect:	Z = 0.31 (I	P = 0.75	5)				0.5 0.7 1 1.5 2 Favours Ranolazine Favours placebo

3.2 Adverse events >70 years

	Ranola	zine	Place	bo		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% C	M-H, Fixed, 95% CI
Rich (CARISA) 2007	102	231	43	132	100.0%	1.36 [1.02, 1.80]	
Total (95% CI)		231		132	100.0%	1.36 [1.02, 1.80]	
Total events	102		43				
Heterogeneity: Not app	olicable						0.5 0.7 1 1.5 2
Test for overall effect:	: Z = 2.09 (P = 0.04)						Favours Ranolazine Favours placebo

3.5 Weekly angina attacks < 70 yrs

	Ranolazine Placebo)		Mean Difference	Mean Difference					
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI			IV, Fix	ed, 95	%CI	
Rich (CARISA) 2007	3.11	4.62	403	3.61	4.04	409	100.0%	-0.50 [-1.10, 0.10]			_	H		
Total (95% CI)			403			409	100.0%	-0.50 [-1.10, 0.10]			•			
Heterogeneity: Not appropriate the Test for overall effect:		· (P = 0	0.10)						Favou	-2 rs ra	-1 anolazin	0 e Fav	1 /ours r	2 olacebo

3.6 Weekly angina attacks > 71 yrs

	Ranolazine Placebo)		Mean Difference	Mean Difference				
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI		IV, F	ixed, 95	%CI	
Rich (CARISA) 2007	2.08	2.67	135	3.21	4.67	130	100.0%	-1.13 [-2.05, -0.21]		_			
Total (95% CI)			135			130	100.0%	-1.13 [-2.05, -0.21]		•	▶		
Heterogeneity: Not app Test for overall effect:		(P = 0	0.02)						-4 Favour	-2 rs ranolazi	0 ine Fav	2 ours pla	4 acebo

3.7 Nitroglycerin consumption < 70 yrs

	Ranolazine		Placebo				Mean Difference	Mean Difference			
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI	IV, Fixed, 95% CI		
Rich (CARISA) 2007	2.18	4.42	403	3.15	5.26	409	100.0%	-0.97 [-1.64, -0.30]	-		
Total (95% CI)			403			409	100.0%	-0.97 [-1.64, -0.30]	•		
Heterogeneity: Not app Test for overall effect:		(P = 0	0.004)						-2 -1 0 1 2 Favours ranolazine Favours placebo		

3.8 Nitroglycerin consumption > 71 yrs

	Ranolazine Placebo			Mean Difference Mean Diffe			ı Differen	ice				
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI	IV, Fi	xed, 95%	CI	
Rich (CARISA) 2007	1.51	2.44	135	2.45	3.99	130	100.0%	-0.94 [-1.74, -0.14]	_			
Total (95% CI)			135			130	100.0%	-0.94 [-1.74, -0.14]	•	▶		
Heterogeneity: Not app Test for overall effect: 2		(P = 0	0.02)						-4 -2 Favours ranolazi	0 ne Favo	2 urs plac	4 cebo

6 Ranolazine (1000 mg bid) plus amolodipine (10 mg) vs amolodipine (10mg) (Follow-up 6 weeks)

6.1 Adverse events

	Ranola	zine	Place	bo		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% Cl	M-H, Fixed, 95% CI
Stone (ERICA) 2006	112	281	100	284	100.0%	1.13 [0.91, 1.40]	_
Total (95% CI)		281		284	100.0%	1.13 [0.91, 1.40]	•
Total events	112		100				
Heterogeneity: Not app Test for overall effect:		P = 0.25	5)				0.5 0.7 1 1.5 2 Favours amlodipine Favours Ranolazine

6.2 Weekly angina frequency - 6 wks

	Ranolazine Placebo)		Mean Difference	Mean Difference			
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI	IV, Fixed, 95% CI		
Stone (ERICA) 2006	2.88	3.16	277	3.31	3.69	281	100.0%	-0.43 [-1.00, 0.14]			
Total (95% CI)			277			281	100.0%	-0.43 [-1.00, 0.14]			
Heterogeneity: Not app Test for overall effect:	'	(P = 0).14)						-1 -0.5 0 0.5 1 Favours ranolazine Favours placebo		

6.3 Weekly nitroglycerin consumption - 6 wks

	Ran	nolazir	ie	PI	acebo)		Mean Difference		Mea	n Differe	nce	
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI		IV, I	ixed, 95°	% CI	
Stone (ERICA) 2006	2.03	3.33	277	2.68	3.69	281	100.0%	-0.65 [-1.23, -0.07]					
Total (95% CI)			277			281	100.0%	-0.65 [-1.23, -0.07]		4	►		
Heterogeneity: Not appress for overall effect:		(P = 0	0.03)						-2 Favours	-1 Ranolazi	0 ne I Fav	1 ours am	2 lodipine

1 Multi vessel disease- Short term follow-up (1 year)

1.1 Death

	Medic	al	CAB	G		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% CI
Hueb 2004 (MASS-II)	3	203	8	203	100.0%	0.38 [0.10, 1.39]	
Total (95% CI)		203		203	100.0%	0.38 [0.10, 1.39]	
Total events	3		8				
Heterogeneity: Not app	icable						0.01 0.1 1 10 100
Test for overall effect: Z	z = 1.46 (P	9 = 0.14	.)				0.01 0.1 1 10 100 Favours Medical Favours CABG

1.2 Q wave MI

	Medic	al	CAB	G		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% CI
Hueb 2004 (MASS-II)	10	203	4	203	100.0%	2.50 [0.80, 7.84]	+
Total (95% CI)		203		203	100.0%	2.50 [0.80, 7.84]	
Total events	10		4				
Heterogeneity: Not app	licable						0.01 0.1 1 10 100
Test for overall effect: 2	9 = 0.12)				Favours Medical Favours CABG	

1.3 Stroke

	Medic	al	CAB	G		Risk Ratio		Risk	Ratio		
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI		M-H, Fixe	d, 95% C		
Hueb 2004 (MASS-II)	3	203	3	203	100.0%	1.00 [0.20, 4.90]		-			
Total (95% CI)		203		203	100.0%	1.00 [0.20, 4.90]					
Total events	3		3								
Heterogeneity: Not app	licable						0.01	0.1	1 1		100
Test for overall effect: 2	Z = 0.00 (F)	9 = 1.00)				0.01 Favou	0.1 urs Medical	1 1 Favours	-	100 BG

1.4 Non protocol revascularisation

	Medical		CABG			Risk Ratio	Risk	Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixe	d, 95% Cl
Hueb 2004 (MASS-II)	16	203	1	203	100.0%	16.00 [2.14, 119.52]		
Total (95% CI)		203		203	100.0%	16.00 [2.14, 119.52]		
Total events	16		1					
Heterogeneity: Not appl	icable						0.01 0.1	10 100
Test for overall effect: Z	= 0.00	7)				Favours Medical		

1.5 Free of angina



1.6 Death- subgroup diabetes

	Medical		CABG		Risk Ratio		Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% CI
Soares 2006 (MASS -II)	2	75	4	59	100.0%	0.39 [0.07, 2.07]	-
Total (95% CI)		75		59	100.0%	0.39 [0.07, 2.07]	
Total events	2		4				
Heterogeneity: Not applica	ıble						0.01 0.1 1 10 100
Test for overall effect: Z =	1.10 (P =	0.27)					Favours Medical Favours CABG

1.7 Death- subgroup no diabetes

	Medic	al	CAB	G		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% CI
Soares 2006 (MASS -II)	2	128	7	144	100.0%	0.32 [0.07, 1.52]	
Total (95% CI)		128		144	100.0%	0.32 [0.07, 1.52]	
Total events	2		7				
Heterogeneity: Not applicate Test for overall effect: Z =		0.15)					0.01 0.1 1 10 100 Favours Medical Favours CABG

2 Multivessel disease- Medium term follow-up (2 to 4 years)

2.1 Death

	Medical		CABG		Risk Ratio		Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% CI
Read 1977 (VA study)	60	354	46	332	69.9%	1.22 [0.86, 1.74]	-
Varnauskas 1979 (ECSS)	29	373	21	394	30.1%	1.46 [0.85, 2.51]	 •
Total (95% CI)		727		726	100.0%	1.29 [0.96, 1.74]	•
Total events	89		67				
Heterogeneity: $Chi^2 = 0.28$, Test for overall effect: $Z = 1$,	, .	$I^2 = 0\%$				0.1 0.2 0.5 1 2 5 10 Favours medical Favours CABG

2.2 cardiac death`

	Medic	al	CAB	G		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% CI
Varnauskas 1979 (ECSS)	27	373	10	394	100.0%	2.85 [1.40, 5.81]	-
Total (95% CI)		373		394	100.0%	2.85 [1.40, 5.81]	•
Total events	27		10				
Heterogeneity: Not applicable Test for overall effect: $Z = 2$.004)					0.05 0.2 1 5 20 Favours Medical Favours CABG

2.3 MI

	Medic	al	CAB	G		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% CI
Guinn 1976 (VA study)	11	60	5	56	100.0%	2.05 [0.76, 5.54]	+
Total (95% CI)		60		56	100.0%	2.05 [0.76, 5.54]	•
Total events	11		5				
Heterogeneity: Not applic Test for overall effect: Z =		= 0.16)					0.05 0.2 1 5 20 Favours Medical Favours CABG

2.4 Free of angina

	Medic	al	CAB	G		Risk Ratio	Risk I	Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed	d, 95% CI
Guinn 1976 (VA study)	5	60	38	56	11.4%	0.12 [0.05, 0.29]		
Varnauskas 1979 (ECSS)	175	373	315	394	88.6%	0.59 [0.52, 0.66]		
Total (95% CI)		433		450	100.0%	0.53 [0.47, 0.60]	*	
Total events	180		353					
Heterogeneity: Chi ² = 13.68	df = 1 (P	= 0.000	$(02); I^2 = 9$	3%			0.02 0.1 1	10 50
Test for overall effect: Z = 10	0.26 (P <	0.00001	1)				****	Favours Medical

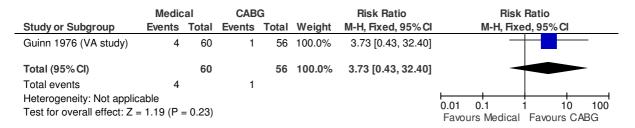
2.5 Death- sub group 2 vessel disease

	Medic	al	CAB	G		Risk Ratio	Risk Ratio	
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% CI	
Varnauskas 1979 (ECSS)	6	154	10	147	100.0%	0.57 [0.21, 1.54]	-	
Total (95% CI)		154		147	100.0%	0.57 [0.21, 1.54]		
Total events Heterogeneity: Not applicable			10				0.01 0.1 1 10	100
Test for overall effect: $Z = 1.1$	11 (P = 0)	.27)					Favours Medical Favours CA	3G

2.6 Death - sub group 3 vessel disease

	Medic	al	CAB	G		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% Cl
Detre 1977 (VA study)	27	158	19	135	71.1%	1.21 [0.71, 2.08]	-
Varnauskas 1979 (ECSS)	19	188	9	219	28.9%	2.46 [1.14, 5.30]	
Total (95% CI)		346		354	100.0%	1.57 [1.02, 2.44]	•
Total events	46		28				
Heterogeneity: Chi ² = 2.18,	df = 1 (P =	= 0.14);	$I^2 = 54\%$				0.1 0.2 0.5 1 2 5 10
Test for overall effect: $Z = 2$.03 (P = 0)	.04)					Favours Medical Favours CABG

2.7 Non protocol revascularisation



3 Multivessel disease -Long term follow-up (>4 years)

3.1 Death

	Medic	al	CAB	G		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% Cl	M-H, Fixed, 95% Cl
Alderman 1990 (CASS)	81	390	70	390	14.3%	1.16 [0.87, 1.54]	 -
Frick 1985	10	50	2	45	0.4%	4.50 [1.04, 19.45]	
Hueb 2010 (MASS-II)	63	203	51	203	10.4%	1.24 [0.90, 1.69]	+-
Kloster 1979	5	49	4	51	0.8%	1.30 [0.37, 4.56]	- •
Peduzzi 1998 (VA study)	265	354	265	332	55.8%	0.94 [0.86, 1.02]	•
Varnauaskas 1988 (ECSS)	109	373	92	394	18.3%	1.25 [0.99, 1.59]	*
Total (95% CI)		1419		1415	100.0%	1.08 [0.99, 1.17]	•
Total events	533		484				
Heterogeneity: Chi ² = 17.29, 0	df = 5 (P =	0.004)	; I ² = 71%	6			0.05 0.2 1 5 20
Test for overall effect: Z = 1.6	7 (P = 0.0	9)					Favours Medical Favours CABG

3.2 cardiac death

	Medic	al	CAB	G		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% CI
Bhayana 1978 (VA study)	36	75	33	71	43.1%	1.03 [0.73, 1.46]	
Varnauaskas 1988 (ECSS)	76	373	46	394	56.9%	1.75 [1.25, 2.45]	
Total (95% CI)		448		465	100.0%	1.44 [1.12, 1.84]	•
Total events	112		79				
Heterogeneity: Chi ² = 4.84, di	f = 1 (P =	0.03); l ²	² = 79%				0.2 0.5 1 2 5
Test for overall effect: $Z = 2.8$	9 (P = 0.0)	004)					Favours Medical Favours CABG

3.3 MI

	Medic	al	CAB	G		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% Cl	M-H, Fixed, 95% Cl
Fisher 1984 (CASS)	43	390	53	390	23.5%	0.81 [0.56, 1.18]	
Hueb 2010 (MASS-II)	42	203	21	203	9.3%	2.00 [1.23, 3.25]	
Kloster 1979	8	49	10	51	4.4%	0.83 [0.36, 1.93]	
Peduzzi 1998 (VA study)	123	354	137	332	62.8%	0.84 [0.69, 1.02]	-
Total (95% CI)		996		976	100.0%	0.94 [0.80, 1.10]	•
Total events	216		221				
Heterogeneity: Chi ² = 11.2	1, df = 3 (F)	P = 0.01	I); I ² = 73	%			0.5 0.7 1 1.5 2
Test for overall effect: $Z = 0$	0.73 (P = 0	0.46)					Favours Medical Favours CABG

3.4 Free of angina

	Medical	CABG		Risk Ratio	Risk Ratio
Study or Subgroup	Events Tota	l Events Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% Cl
Hueb 2010 (MASS-II)	88 203	130 203	25.9%	0.68 [0.56, 0.82]	
Peduzzi 1992 (VA study)	10 354	13 332	2.7%	0.72 [0.32, 1.62]	
Rogers 1990 (CASS)	163 390	183 390	36.4%	0.89 [0.76, 1.04]	
Varnauskas 1982 (ECSS)	104 373	181 394	35.0%	0.61 [0.50, 0.74]	-
Total (95% CI)	1320	1319	100.0%	0.73 [0.66, 0.81]	♦
Total events	365	507			
Heterogeneity: Chi ² = 10.16	df = 3 (P = 0.0)	2); I ² = 70%			0.2 0.5 1 2 5
Test for overall effect: $Z = 5$	97 (P < 0.0000)			Favours CABG Favours Medical

3.5 stroke

	Medic	al	CAB	G		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% CI
Hueb 2010 (MASS-II)	14	203	17	203	100.0%	0.82 [0.42, 1.63]	_
Total (95% CI)		203		203	100.0%	0.82 [0.42, 1.63]	
Total events	14		17				
Heterogeneity: Not app Test for overall effect: 2		o = 0.58)				0.2 0.5 1 2 5 Favours Medical Favours CABG

3.6 Non protocol revascularisation

	Medic	al	CAB	G		Risk Ratio	Risk Ratio	
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% Cl	M-H, Fixed, 95% CI	
Hueb 2010 (MASS-II)	80	203	15	203	10.4%	5.33 [3.18, 8.94]		→
Peduzzi 1998 (VA study)	194	354	78	332	55.7%	2.33 [1.88, 2.89]	-	
Rogers 1990 (CASS)	168	390	49	390	33.9%	3.43 [2.58, 4.56]	-	
Total (95% CI)		947		925	100.0%	3.02 [2.56, 3.55]	•	
Total events	442		142					
Heterogeneity: Chi ² = 10.9	0, df = 2 (F)	P = 0.00	04); I ² = 8	2%			0.2 0.5 1 2 5	
Test for overall effect: Z =	13.18 (P <	0.0000	1)				Favours Medical Favours CABG	à

3.7 Death- sub group 2 vessel disease

	Medic	al	CAB	G		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% CI
Alderman 1990 (CASS)	31	148	20	160	58.2%	1.68 [1.00, 2.81]	-
Kloster 1979	2	19	0	17	1.6%	4.50 [0.23, 87.61]	
Varnauskas 1982 (ECSS)	20	154	13	147	40.2%	1.47 [0.76, 2.84]	
Total (95% CI)		321		324	100.0%	1.64 [1.10, 2.45]	•
Total events	53		33				
Heterogeneity: Chi ² = 0.56,	df = 2 (P =	= 0.76);	$I^2 = 0\%$				1 1 10
Test for overall effect: Z = 2	.40 (P = 0	.02)					0.01 0.1 1 10 100 Favours Medical Favours CABG

3.8 Death- sub group 3 vessel disease

	Medic	al	CAB	G		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% Cl
Alderman 1990 (CASS)	34	135	30	123	64.4%	1.03 [0.67, 1.58]	
Kloster 1979	2	20	4	26	7.1%	0.65 [0.13, 3.20]	
Varnauskas 1982 (ECSS)	35	188	15	219	28.4%	2.72 [1.53, 4.82]	
Total (95% CI)		343		368	100.0%	1.48 [1.07, 2.06]	•
Total events	71		49				
Heterogeneity: Chi ² = 8.11,	df = 2 (P =	0.02);	$I^2 = 75\%$				0.1 0.2 0.5 1 2 5 10
Test for overall effect: Z = 2	.37 (P = 0	.02)					Favours Medical Favours CABG

3.9 Mortality- age >53 yrs

	Medical		CABG			Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% Cl
Alderman 1990 (CASS)	46	163	39	163	100.0%	1.18 [0.82, 1.70]	
Total (95% CI)		163		163	100.0%	1.18 [0.82, 1.70]	
Total events	46		39				
Heterogeneity: Not applic	able						05 07 1 15 0
Test for overall effect: Z =	0.38)					0.5 0.7 1 1.5 2 Favours Medical Favours CABG	

3.10 Mortality- age <47 years

	Medic	al	CAB	G		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% CI
Alderman 1990 (CASS)	16	101	17	92	100.0%	0.86 [0.46, 1.60]	-
Total (95% CI)		101		92	100.0%	0.86 [0.46, 1.60]	
Total events	16		17				
Heterogeneity: Not applic Test for overall effect: Z =		0.63)					0.1 0.2 0.5 1 2 5 10 Favours Medical Favours CABG

3.11 Mortality- age 47-53 years

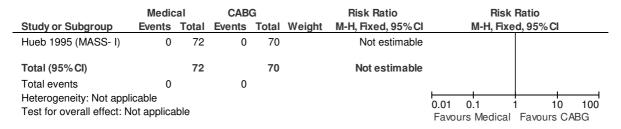
	Medic	al	CAB	G		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% Cl
Alderman 1990 (CASS)	23	126	16	135	100.0%	1.54 [0.85, 2.78]	+
Total (95% CI)		126		135	100.0%	1.54 [0.85, 2.78]	
Total events Heterogeneity: Not applic Test for overall effect: Z =		0.15)	16				0.1 0.2 0.5 1 2 5 10 Favours Medical Favours CABG

4 Single vessel disease- medium term follow-up (2-4 years)

4.1 Death

	Medic	al	CAB	G		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% CI
Hueb 1995 (MASS- I)	0	72	1	70	100.0%	0.32 [0.01, 7.83]	
Total (95% CI)		72		70	100.0%	0.32 [0.01, 7.83]	
Total events	0		1				
Heterogeneity: Not appl	licable						0.01 0.1 1 10 100
Test for overall effect: Z	Z = 0.69 (P)		0.01 0.1 1 10 100 Favours Medical Favours CABG				

4.2 Stroke



4.3 MI

	Medic	al	CAB	G		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% Cl
Hueb 1995 (MASS- I)	2	72	1	70	100.0%	1.94 [0.18, 20.96]	
Total (95% CI)		72		70	100.0%	1.94 [0.18, 20.96]	
Total events	2		1				
Heterogeneity: Not appl	icable						0.01 0.1 1 10 100
Test for overall effect: Z	C = 0.55 (P)	= 0.58)				0.01 0.1 1 10 100 Favours Medical Favours CABG

4.4 Non protocol revascularisation

	Medical		CABG		Risk Ratio		Risk Ratio
Study or Subgroup	Events Total		Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% CI
Hueb 1995 (MASS- I)	7	72	0	70	100.0%	14.59 [0.85, 250.71]	
Total (95% CI)		72		70	100.0%	14.59 [0.85, 250.71]	
Total events	7		0				
Heterogeneity: Not appl			`				0.01 0.1 1 10 100
Test for overall effect: Z	. = 1.85 (F	r = 0.06)				Favours Medical Favours CABG

4.5 Free of angina

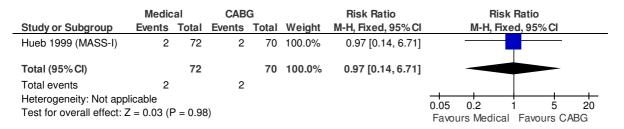
	Medic	al	CAB	G		Risk Ratio	Risl	k Ratio	
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fix	ed, 95% CI	
Hueb 1995 (MASS- I)	23	72	68	70	100.0%	0.33 [0.23, 0.46]			
Total (95% CI)		72		70	100.0%	0.33 [0.23, 0.46]	•		
Total events	23		68						
Heterogeneity: Not app Test for overall effect: 2		o < 0.00	001)				0.2 0.5 Favours CABG	1 2 Favours Medica	5 al

5 Single vessel disease -Long term follow-up (>4 years)

5.1 Death

	Medical		CABG			Risk Ratio	Risk Ratio
Study or Subgroup	Events Total		Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% Cl
Alderman 1990 (CASS)	19	107	16	107	86.1%	1.19 [0.65, 2.18]	
Hueb 1999 (MASS-I)	6	72	2	70	10.9%	2.92 [0.61, 13.97]	
Kloster 1979	1	10	0	8	3.0%	2.45 [0.11, 53.25]	-
Total (95% CI)		189		185	100.0%	1.41 [0.81, 2.46]	•
Total events	26		18				
Heterogeneity: Chi ² = 1.26	6, df = 2 (F)	P = 0.53	3); I ² = 0%)			0.05 0.2 1 5 20
Test for overall effect: Z =	1.23 (P =	0.22)					Favours Medical Favours CABG

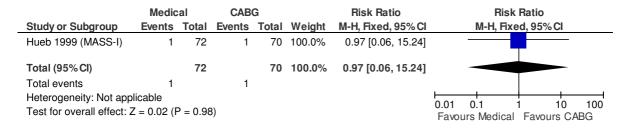
5.2 Cardiac death



5.3 MI

	Medic	al	CAB	G		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% Cl
Hueb 1999 (MASS-I)	3	72	3	70	100.0%	0.97 [0.20, 4.66]	
Total (95% CI)		72		70	100.0%	0.97 [0.20, 4.66]	
Total events	3		3				
Heterogeneity: Not app	licable						0.02 0.1 1 10 50
Test for overall effect: 2	Z = 0.04 (F	P = 0.97	7)				Favours Medical Favours CABG

5.4 Stroke



5.5 Non protocol revascularisation

	Medic	al	CAB	G		Risk Ratio		Ris	k Ratio	
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI		M-H, Fix	ed, 95% C	
Hueb 1999 (MASS-I)	12	72	0	70	100.0%	24.32 [1.47, 402.97]				
Total (95% CI)		72		70	100.0%	24.32 [1.47, 402.97]				
Total events	12		0							
Heterogeneity: Not app Test for overall effect:		P = 0.03	3)				0.001 Favou	0.1 urs Medica	1 10 I Favours	1000 s CABG

5.6 Free of angina

	Medic	al	CAB	G		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% CI
Hueb 1999 (MASS-I)	17	72	48	70	100.0%	0.34 [0.22, 0.54]	_
Total (95% CI)		72		70	100.0%	0.34 [0.22, 0.54]	•
Total events	17		48				
Heterogeneity: Not app	olicable						0.2 0.5 1 2 5
Test for overall effect:	Z = 4.70 (F	o.00	0001)				Favours CABG Favours Medical

6 Left main stem disease- Medium term follow-up (2 to 4 years)

6.1 Death

	Medic	al	CAB	G		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% CI
Detre 1977 (VA study)	16	44	3	46	58.3%	5.58 [1.74, 17.82]	
Varnauskas 1979 (ECSS)	4	31	2	28	41.7%	1.81 [0.36, 9.12]	- •
Total (95% CI)		75		74	100.0%	4.00 [1.60, 10.03]	•
Total events	20		5				
Heterogeneity: Chi ² = 1.24,		0.05 0.2 1 5 20					
Test for overall effect: $Z = 2$.96 (P = 0	.003)					Favours Medical Favours CABG

7 Left main stem disease- Long term follow-up (>4 years)

7.1 Death

	Medic	al	CAB	G		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% Cl
Alderman 1990 (CASS)	3	6	0	8	1.0%	9.00 [0.55, 147.08]	<u>+</u>
Peduzzi 1998 (VA study)	38	43	43	48	89.8%	0.99 [0.85, 1.14]	
Varnauskas 1982 (ECSS)	10	31	4	28	9.3%	2.26 [0.80, 6.39]	
Total (95% CI)		80		84	100.0%	1.18 [0.97, 1.43]	•
Total events	51		47				
Heterogeneity: Chi ² = 9.48,	0.009)	; I ² = 79%	, 0			0.01 0.1 1 10 100	
Test for overall effect: $Z = 1$.69 (P = 0	.09)					Favours Medical Favours CABG

7.2 MI

	Medical		CABG			Risk Ratio	Risk Ratio	
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% Cl	
Peduzzi 1998 (VA study)	16	43	21	48	100.0%	0.85 [0.51, 1.41]	_	
Total (95% CI)		43		48	100.0%	0.85 [0.51, 1.41]		
Total events Heterogeneity: Not applical Test for overall effect: Z = 0		0.53)	21				0.5 0.7 1 1.5 2 Favours Medical Favours CABG	

8 Left anterior descending artery - Long term follow-up (>4 years)

8.1 Death

	Medical		CABG		Risk Ratio		Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% Cl	M-H, Fixed, 95% CI
Alderman 1990 (CASS)	60	275	50	277	45.3%	1.21 [0.86, 1.69]	-
Varnauaskas 1988 (ECSS)	84	240	63	262	54.7%	1.46 [1.10, 1.92]	
Total (95% CI)		515		539	100.0%	1.34 [1.09, 1.66]	•
Total events	144		113				
Heterogeneity: Chi ² = 0.70, di	= 1 (P = 0	0.40); l ²	$r^2 = 0\%$			0.5 0.7 1 1.5 2	
Test for overall effect: $Z = 2.7$	2 (P = 0.0)	07)					Favours Medical Favours CABG

9 Sub group interaction

9.1 Sub group 2 vessel and 3 vessel (Death) - Multivessel medium term follow-up

				Risk Ratio	Risk Ratio
Study or Subgroup	log[Risk Ratio]	SE	Weight	IV, Fixed, 95% CI	IV, Fixed, 95% CI
meta analysis- 2 vessel	-0.5621189 (0.508273	16.1%	0.57 [0.21, 1.54]	
meta analysis- 3 vessel	0.45107562	0.222499	83.9%	1.57 [1.02, 2.43]	=
Total (95% CI)			100.0%	1.33 [0.89, 1.99]	•
Heterogeneity: $Chi^2 = 3.33$ Test for overall effect: $Z =$. , , , , , , , , , , , , , , , , , , ,	I ² = 70%			0.01 0.1 1 10 100 Favours Medical Favours CABG

9.2 Sub group 2 vessel and 3 vessel (Death) - Multivessel-long term follow-up

			Risk Ratio	Risk Ratio					
Study or Subgroup	log[Risk Ratio] SI	Weight	IV, Fixed, 95% CI	IV, Fixed, 95%	CI				
meta analysis- 2 vessel	0.49469624 0.20428	3 40.1%	1.64 [1.10, 2.45]	-					
meta analysis- 3 vessel	0.39204209 0.167104	1 59.9%	1.48 [1.07, 2.05]	=					
Total (95% CI)		100.0%	1.54 [1.20, 1.99]	•					
Heterogeneity: Chi ² = 0.15 Test for overall effect: Z =	5, df = 1 (P = 0.70); I ² = 0% 3.35 (P = 0.0008)			0.01 0.1 1 Favours Medical Favou	10 100 urs CABG				

9.3 Sub group age <47, 47-53, >53 years (Death) - Multivessel -long term follow-up

			Risk Ratio	Risk Ratio
Study or Subgroup	log[Risk Ratio]	SE Weight	IV, Fixed, 95% CI	IV, Fixed, 95% CI
meta analysis- 47-53	0.43178242 0.30	2288 22.0%	1.54 [0.85, 2.79]	 • -
meta analysis- age <47	-0.1508229 0.31	7993 19.9%	0.86 [0.46, 1.60]	 -
meta analysis->53	0.16551444 0.1	8599 58.1%	1.18 [0.82, 1.70]	-
Total (95% CI)		100.0%	1.17 [0.89, 1.55]	•
Heterogeneity: Chi ² = 1.76	$S, df = 2 (P = 0.41); I^2 = 0.41$		0.01 0.1 1 10 100	
Test for overall effect: Z =	1.14 (P = 0.26)			Favours Medical Favours CABG

1 Multivessel disease - short term follow-up (1 year)

1.1 Death

	Medica	al	PCI			Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% Cl
Hueb 2004 (MASS-II)	3	203	9	205	100.0%	0.34 [0.09, 1.23]	
Total (95% CI)		203		205	100.0%	0.34 [0.09, 1.23]	
Total events	3		9				
Heterogeneity: Not app	licable						0.02 0.1 1 10 50
Test for overall effect: 2	Z = 1.65 (P	= 0.10)				0.02 0.1 1 10 50 Favours Medical Favours PCI

1.2 Q wave MI



1.3 Stroke

	Medic	al	PCI			Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% Cl
Hueb 2004 (MASS-II)	3	203	2	205	100.0%	1.51 [0.26, 8.97]	
Total (95% CI)		203		205	100.0%	1.51 [0.26, 8.97]	
Total events	3		2				
Heterogeneity: Not app	licable						000 01 1 10 50
Test for overall effect: 2	Z = 0.46 (F)	P = 0.65)				0.02 0.1 1 10 50 Favours Medical Favours PCI

1.4 Non protocol revascularisation

	Medical	I	PCI			Risk Ratio	Risk Ratio
Study or Subgroup	Events T	Γotal	Events	Total	Weight	M-H, Fixed, 95% Cl	M-H, Fixed, 95% CI
Hueb 2004 (MASS-II)	16	203	25	205	100.0%	0.65 [0.36, 1.17]	
Total (95% CI)		203		205	100.0%	0.65 [0.36, 1.17]	
Total events	16		25				
Heterogeneity: Not appl	0.1 0.2 0.5 1 2 5 10						
Test for overall effect: Z	= 1.43 (P =		0.1 0.2 0.5 1 2 5 10 Favours Medical Favours PCI				

1.5 Free of angina



1.6 Death- Sub group diabetes

	Medic	al	PCI			Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% Cl
Soares 2006 (MASS-II)	2	75	3	56	100.0%	0.50 [0.09, 2.88]	
Total (95% CI)		75		56	100.0%	0.50 [0.09, 2.88]	
Total events	2		3				
Heterogeneity: Not applic	able						0.01 0.1 1 10 100
Test for overall effect: Z =	= 0.78 (P =	= 0.44)					0.01 0.1 1 10 100 Favours Medical Favours PCI

1.7 Death- Subgroup no diabetes

	Medic	al	PCI			Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% CI
Soares 2006 (MASS-II)	2	128	8	149	100.0%	0.29 [0.06, 1.35]	
Total (95% CI)		128		149	100.0%	0.29 [0.06, 1.35]	
Total events	2		8				
Heterogeneity: Not applic	able						0.01 0.1 1 10 100
Test for overall effect: Z =	= 1.58 (P =	= 0.11)					0.01 0.1 1 10 100 Favours Medical Favours PCI

2 Multi vessel disease- medium term follow-up (2 to 4 years)

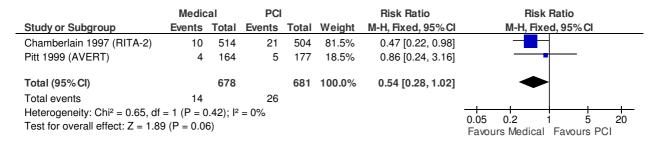
2.1 Death

	Medic	al	PCI			Risk Ratio	Risk Rati	0	
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 9	5%CI	
Chamberlain 1997 (RITA-2)	7	514	11	504	100.0%	0.62 [0.24, 1.60]			
Total (95% CI)		514		504	100.0%	0.62 [0.24, 1.60]			
Total events	7		11						
Heterogeneity: Not applicable Test for overall effect: Z = 0.98	6 (P = 0.3	3)					0.05 0.2 1 Favours Medical Fav	5 ours PCI	20

2.2 cardiac death

	Medic	al	PCI			Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% Cl
Chamberlain 1997 (RITA-2)	3	514	5	504	84.0%	0.59 [0.14, 2.45]	
Pitt 1999 (AVERT)	1	164	1	177	16.0%	1.08 [0.07, 17.11]	
Total (95% CI)		678		681	100.0%	0.67 [0.19, 2.35]	
Total events	4		6				
Heterogeneity: $Chi^2 = 0.15$, df Test for overall effect: $Z = 0.63$	•	, .	= 0%				0.02 0.1 1 10 50 Favours Medical Favours PCI

2.3 Non fatal MI



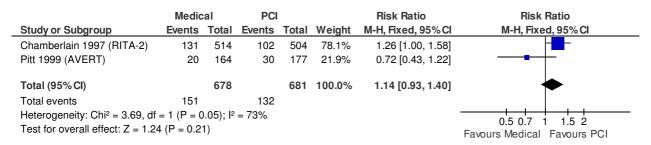
2.4 Stroke

	Medic	al	PCI			Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% Cl
Chamberlain 1997 (RITA-2)	6	514	1	504	100.0%	5.88 [0.71, 48.69]	+
Pitt 1999 (AVERT)	0	164	0	164		Not estimable	
Total (95% CI)		678		668	100.0%	5.88 [0.71, 48.69]	
Total events	6		1				
Heterogeneity: Not applicable Test for overall effect: Z = 1.64	(P = 0.1	0)					0.01 0.1 1 10 100 Favours Medical Favours PCI

2.5 Hospitalisation (for worsening of angina) no. of patients

	Medic	al	PCI			Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% CI
Pitt 1999 (AVERT)	11	164	25	177	100.0%	0.47 [0.24, 0.93]	-
Total (95% CI)		164		177	100.0%	0.47 [0.24, 0.93]	•
Total events	11		25				
Heterogeneity: Not ap Test for overall effect:		P = 0.0	3)				0.05 0.2 1 5 20 Favours Medical Favours PCI

2.6 Non protocol Revascularisation



3 Multivessel disease-long term follow-up (> 4 years follow-up)

3.1 Death

	Medic	al	PCI			Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% Cl
3.1.1 angioplasty and stent	is						
Boden 2007 (COURAGE)	95	1138	85	1149	47.9%	1.13 [0.85, 1.49]	-
Hueb 2010 (MASS-II)	63	203	49	205	27.6%	1.30 [0.94, 1.79]	
Subtotal (95% CI)		1341		1354	75.4%	1.19 [0.96, 1.47]	•
Total events	158		134				
Heterogeneity: Chi ² = 0.42, o	df = 1 (P =	0.52);	$I^2 = 0\%$				
Test for overall effect: Z = 1.	61 (P = 0.	.11)					
3.1.2 angioplasty							
Henderson 2003 (RITA-2)	43	514	43	504	24.6%	0.98 [0.65, 1.47]	
Subtotal (95% CI)		514		504	24.6%	0.98 [0.65, 1.47]	
Total events	43		43				
Heterogeneity: Not applicable	е						
Test for overall effect: $Z = 0$.	10 (P = 0.	.92)					
Total (95% CI)		1855		1858	100.0%	1.14 [0.94, 1.37]	•
Total events	201		177				
Heterogeneity: Chi ² = 1.18, o	df = 2 (P =	0.55);	$I^2 = 0\%$				
Test for overall effect: $Z = 1$.	0.5 0.7 1 1.5 2						
Test for subgroup difference	•	,	= 1 (P =	0.40), I	² = 0%		Favours Medical Favours PCI

3.2 cardiac death

	Medical	PCI		Risk Ratio	Risk Ratio
Study or Subgroup	Events Total	al Events T	otal Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% Cl
3.2.1 angioplasty and sten	ts				
Boden 2007 (COURAGE) Subtotal (95% CI)	25 113 113	-	149 63.6% 149 63.6%	1.10 [0.63, 1.92] 1.10 [0.63, 1.92]	
Total events	25	23			
Heterogeneity: Not applicab	le				
Test for overall effect: $Z = 0$	33 (P = 0.74)				
3.2.2 angioplasty					
Henderson 2003 (RITA-2) Subtotal (95% CI)	22 51 51	-	504 36.4% 504 36.4 %	1.66 [0.85, 3.26] 1.66 [0.85, 3.26]	
Total events	22	13			
Heterogeneity: Not applicab	le				
Test for overall effect: Z = 1.	47 (P = 0.14)				
Total (95% CI)	165	2 1	653 100.0%	1.30 [0.85, 2.00]	•
Total events	47	36			
Heterogeneity: Chi ² = 0.85, 6	df = 1 (P = 0.36)	$(3); I^2 = 0\%$			0.2 0.5 1 2 5
Test for overall effect: $Z = 1$.	21 (P = 0.23)				Favours Medical Favours PCI
Test for subgroup difference	es: $Chi^2 = 0.85$,	df = 1 (P = 0.3)	36), $I^2 = 0\%$		

3.3 Non fatal MI

	Medic	al	PCI			Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% CI
3.3.1 angioplasty and Ster	its						
Boden 2007 (COURAGE)	128	1138	143	1149	70.6%	0.90 [0.72, 1.13]	-
Hueb 2010 (MASS-II)	42	203	27	205	13.3%	1.57 [1.01, 2.45]	-
Subtotal (95% CI)		1341		1354	84.0%	1.01 [0.83, 1.23]	•
Total events	170		170				
Heterogeneity: Chi ² = 4.77,	df = 1 (P =	0.03);	$I^2 = 79\%$				
Test for overall effect: $Z = 0$.10 (P = 0	.92)					
3.3.2 angioplasty							
Henderson 2003 (RITA-2)	23	514	32	504	16.0%	0.70 [0.42, 1.19]	
Subtotal (95% CI)		514		504	16.0%	0.70 [0.42, 1.19]	
Total events	23		32				
Heterogeneity: Not applicab	le						
Test for overall effect: $Z = 1$.31 (P = 0	.19)					
Total (95% CI)		1855		1858	100.0%	0.96 [0.80, 1.16]	•
Total events	193		202				
Heterogeneity: Chi ² = 6.38,	05.07.1.15.0						
Test for overall effect: $Z = 0$	0.5 0.7 1 1.5 2 Favours Medical Favours PCI						
Test for subgroup difference	es: Chi² =	1.59, df	= 1 (P =	0.21), I	² = 37.3%		ravours ividuical ravours FOI

3.4 Non protocol Revascularisation

	Medic	al	PCI			Risk Ratio	Risk Ratio			
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% Cl			
3.4.1 angioplasty and sten	ts									
Boden 2007 (COURAGE)	348	1138	228	1149	49.0%	1.54 [1.33, 1.78]	-			
Hueb 2010 (MASS-II)	80	203	85	205	18.3%	0.95 [0.75, 1.20]	-			
Subtotal (95% CI)		1341		1354	67.3%	1.38 [1.22, 1.56]	•			
Total events	428		313							
Heterogeneity: Chi ² = 11.83	, df = 1 (P)	= 0.000	06); $I^2 = 9$	2%						
Test for overall effect: $Z = 5$.10 (P < 0.	00001)								
3.4.2 angioplasty										
Henderson 2003 (RITA-2)	202	514	150	504	32.7%	1.32 [1.11, 1.57]	-			
Subtotal (95% CI)		514		504	32.7%	1.32 [1.11, 1.57]	•			
Total events	202		150							
Heterogeneity: Not applicab	le									
Test for overall effect: Z = 3	.17 (P = 0.	002)								
Total (95% CI)		1855		1858	100.0%	1.36 [1.23, 1.51]	•			
Total events	630		463							
Heterogeneity: Chi ² = 11.84	, df = 2 (P)	= 0.003	3); I ² = 83	%			0.5 0.7 1 1.5 2			
Test for overall effect: Z = 6	Test for overall effect: $Z = 6.00 (P < 0.00001)$									
Test for subgroup difference	es: Chi² = (0.17, df	= 1 (P =	0.68), I	$^{2} = 0\%$		Favours Medical Favours PCI			

3.5 stroke

	Medical	P	CI		Risk Ratio	Risk Ratio
Study or Subgroup	Events T	otal Even	s Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% CI
Boden 2007 (COURAGE)	14 1	138 2	2 1149	66.7%	0.64 [0.33, 1.25]	
Hueb 2010 (MASS-II)	14	203	1 205	33.3%	1.29 [0.60, 2.76]	
Total (95% CI)	1	341	1354	100.0%	0.86 [0.52, 1.41]	•
Total events	28	3	3			
Heterogeneity: Chi ² = 1.80,	df = 1 (P = 0)).18); l ² = 44	%			0.05 0.2 1 5 20
Test for overall effect: $Z = 0$.61 (P = 0.54	4)				Favours Medical Favours PCI

3.6 Free of angina

	Medic	al	PCI			Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% CI
3.6.1 angioplasty and sten	ts						
Boden 2007 (COURAGE)	296	1138	316	1149	68.3%	0.95 [0.83, 1.08]	
Hueb 2010 (MASS-II)	88	203	120	205	25.9%	0.74 [0.61, 0.90]	
Subtotal (95% CI)		1341		1354	94.2%	0.89 [0.79, 1.00]	
Total events	384		436				
Heterogeneity: Chi ² = 4.18, o	df = 1 (P =	= 0.04);	$I^2 = 76\%$				
Test for overall effect: $Z = 2$.	04 (P = 0	.04)					
3.6.2 angioplasty							
Folland 1997 (ACME)	18	50	27	51	5.8%	0.68 [0.43, 1.07]	
Subtotal (95% CI)		50		51	5.8%	0.68 [0.43, 1.07]	
Total events	18		27				
Heterogeneity: Not applicable	le						
Test for overall effect: $Z = 1$.	68 (P = 0	.09)					
Total (95% CI)		1391		1405	100.0%	0.88 [0.79, 0.98]	•
Total events	402		463				
Heterogeneity: Chi ² = 5.30, o							
Test for overall effect: $Z = 2$.	0.5 0.7 1 1.5 2						
Test for subgroup difference	•	,	= 1 (P =	0.26).	² = 21.8%	1	Favours PCI Favours Medic

3.7 Death- sub group age >65 yrs

	Medic	al	PCI			Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% Cl	M-H, Fixed, 95% CI
Teo 2009 (COURAGE)	54	444	57	460	100.0%	0.98 [0.69, 1.39]	_
Total (95% CI)		444		460	100.0%	0.98 [0.69, 1.39]	
Total events	54		57				
Heterogeneity: Not applic	cable						05 07 1 15 0
Test for overall effect: Z =	= 0.10 (P =	= 0.92)					0.5 0.7 1 1.5 2 Favours Medical Favours PCI

3.8 MI- sub group age >65 yrs

	Medic	al	PCI			Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% Cl
Teo 2009 (COURAGE)	52	444	60	460	100.0%	0.90 [0.63, 1.27]	_
Total (95% CI)		444		460	100.0%	0.90 [0.63, 1.27]	
Total events	52		60				
Heterogeneity: Not applic	able						05 07 1 15 0
Test for overall effect: Z =	= 0.61 (P =	= 0.54)					0.5 0.7 1 1.5 2 Favours Medical Favours PCI

3.9 Free of angina- sub group age >65 yrs

	Medic	al	PCI			Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% Cl	M-H, Fixed, 95% Cl
Teo 2009 (COURAGE)	324	444	368	460	100.0%	0.91 [0.85, 0.98]	-
Total (95% CI)		444		460	100.0%	0.91 [0.85, 0.98]	•
Total events	324		368				
Heterogeneity: Not applic	able						0.5 0.7 1 1.5 2
Test for overall effect: Z =	= 2.48 (P =	= 0.01)					0.5 0.7 1 1.5 2 Favours PCI Favours Medical

3.10 Death- sub group 2 vessel disease

	Medic	al	PCI			Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% Cl	M-H, Fixed, 95% Cl
Folland 1997 (ACME)	10	50	9	51	100.0%	1.13 [0.50, 2.55]	
Total (95% CI)		50		51	100.0%	1.13 [0.50, 2.55]	
Total events	10		9				
Heterogeneity: Not appl Test for overall effect: Z		= 0.76)				0.1 0.2 0.5 1 2 5 10 Favours Medical Favours PCI

3.11 Non fatal MI- sub group 2 vesel disease

	Medic	al	PCI			Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% Cl	M-H, Fixed, 95% CI
Folland 1997 (ACME)	7	50	7	51	100.0%	1.02 [0.39, 2.70]	_
Total (95% CI)		50		51	100.0%	1.02 [0.39, 2.70]	•
Total events	7		7				
Heterogeneity: Not app Test for overall effect: 2		0.07	١				0.05 0.2 1 5 20
rest for overall effect. 2	_ = 0.04 (F	= 0.97)				Favours Medical Favours PCI

3.12 Death- sub group age <65 yrs

	Medic	al	PCI			Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% Cl	M-H, Fixed, 95% CI
Teo 2009 (COURAGE)	41	693	25	688	100.0%	1.63 [1.00, 2.65]	
Total (95% CI)		693		688	100.0%	1.63 [1.00, 2.65]	•
Total events Heterogeneity: Not applic	41		25				
Test for overall effect: Z		= 0.05)					0.2 0.5 1 2 5 Favours Medical Favours PCI

3.13 MI - sub group age <65 yrs

	Medic	al	PCI			Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% Cl
Teo 2009 (COURAGE)	76	693	83	688	100.0%	0.91 [0.68, 1.22]	
Total (95% CI)		693		688	100.0%	0.91 [0.68, 1.22]	
Total events	76		83				
Heterogeneity: Not applic Test for overall effect: Z		= 0.52)					0.5 0.7 1 1.5 2 Favours Medical Favours PCI

3.14 Free of angina- sub group age<65 years



4 Single vessel disease - medium term follow-up (2 -4 years)

4.1 Death

	Medic	al	PCI			Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% CI
Hartigan 1998 (ACME)	7	107	5	105	77.1%	1.37 [0.45, 4.19]	-
Hueb 1995 (MASS-I)	0	72	1	72	22.9%	0.33 [0.01, 8.05]	•
Total (95% CI)		179		177	100.0%	1.14 [0.41, 3.17]	•
Total events	7		6				
Heterogeneity: Chi ² = 0.6	8, df = 1 (P = 0.4	1); I ² = 0°	%			0.01 0.1 1 10 100
Test for overall effect: Z	= 0.24 (P	= 0.81)					Favours Medical Favours PCI

4.2 MI

	Medic	al	PCI			Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% Cl	M-H, Fixed, 95% Cl
Hartigan 1998 (ACME)	7	107	10	105	83.5%	0.69 [0.27, 1.74]	
Hueb 1995 (MASS-I)	2	72	2	72	16.5%	1.00 [0.14, 6.91]	
Total (95% CI)		179		177	100.0%	0.74 [0.32, 1.70]	
Total events	9		12				
Heterogeneity: Chi ² = 0.1	2, df = 1	P = 0.7	(3); I ² = 0%	%			0.05 0.2 1 5 20
Test for overall effect: Z =	= 0.71 (P :	= 0.48)					Favours Medical Favours PCI

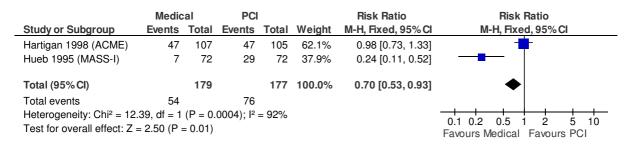
4.3 Hospitalisation (no. of patients)

	Medica	al	PCI			Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% Cl	M-H, Fixed, 95% CI
Hartigan 1998 (ACME)	69	107	64	105	100.0%	1.06 [0.86, 1.30]	_
Total (95% CI)		107		105	100.0%	1.06 [0.86, 1.30]	
Total events	69		64				
Heterogeneity: Not applic	cable						0.5 0.7 1 1.5 0
Test for overall effect: Z	= 0.53 (P =	0.60)					0.5 0.7 1 1.5 2 Favours Medical Favours PCI

4.4 Free of angina

	Medic	al	PCI			Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% CI
Hartigan 1998 (ACME)	50	107	65	105	53.1%	0.75 [0.59, 0.97]	-
Hueb 1995 (MASS-I)	23	72	58	72	46.9%	0.40 [0.28, 0.57]	-
Total (95% CI)		179		177	100.0%	0.59 [0.48, 0.72]	•
Total events	73		123				
Heterogeneity: Chi ² = 8.5	0, df = 1	P = 0.0	04); I ² = 8	38%			0.2 0.5 1 2 5
Test for overall effect: Z =	= 5.11 (P ·	< 0.000	01)				Favours PCI Favours Medical

4.5 Non protocol revascularisation



4.6 Stroke

	Medic	al	PCI			Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% Cl	M-H, Fixed, 95% Cl
Hueb 1995 (MASS-I)	0	72	0	72		Not estimable	
Total (95% CI)		72		72		Not estimable	
Total events	0		0				
Heterogeneity: Not app	licable						0.01 0.1 1 10 100
Test for overall effect: I	Not applica	able					0.01 0.1 1 10 100 Favours Medical Favours PCI

5 Single vessel disease - long term follow-up (>4 years)

5.1 Death

	Medic	al	PCI			Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% CI
Folland 1997 (ACME)	16	112	17	115	73.7%	0.97 [0.51, 1.82]	
Hueb 1999 (MASS-I)	6	72	6	72	26.3%	1.00 [0.34, 2.95]	
Total (95% CI)		184		187	100.0%	0.98 [0.57, 1.68]	
Total events	22		23				
Heterogeneity: Chi ² = 0.	00, df = 1	(P = 0.	96); I ² = 0)%			0.2 0.5 1 2 5
Test for overall effect: Z	= 0.09 (P	= 0.93)				Favours Medical Favours PCI

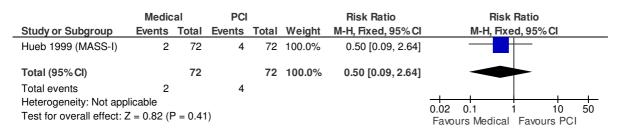
5.2 Non fatal MI

	Medic	al	PCI			Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% Cl	M-H, Fixed, 95% CI
Folland 1997 (ACME)	8	112	18	115	81.6%	0.46 [0.21, 1.01]	
Hueb 1999 (MASS-I)	3	72	4	72	18.4%	0.75 [0.17, 3.23]	
Total (95% CI)		184		187	100.0%	0.51 [0.26, 1.02]	•
Total events	11		22				
Heterogeneity: Chi ² = 0.	34, df = 1	(P = 0.	56); I ² = 0)%			0.05 0.2 1 5 20
Test for overall effect: Z	= 1.91 (P	= 0.06)				Favours Medical Favours PCI

5.3 Non protocol Revascularisation

	Medic	PCI			Risk Ratio	Risk Ratio	
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% CI
Hueb 1999 (MASS-I)	12	72	29	72	100.0%	0.41 [0.23, 0.75]	-
Total (95% CI)		72		72	100.0%	0.41 [0.23, 0.75]	•
Total events	12		29				
Heterogeneity: Not app Test for overall effect:		P = 0.00	03)				0.2 0.5 1 2 5 Favours Medical Favours PCI

5.4 cardiac death



5.5 stroke

	Medic	al	PCI			Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% Cl
Hueb 1999 (MASS-I)	1	72	1	72	100.0%	1.00 [0.06, 15.68]	
Total (95% CI)		72		72	100.0%	1.00 [0.06, 15.68]	
Total events	1		1				
Heterogeneity: Not app Test for overall effect: 2		P = 1.00	0)				0.005 0.1 1 10 200 Favours Medical Favours PCI

5.6 Free of angina

	Medic	al	PCI			Risk Ratio	Risk F	Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed	d, 95% CI
Hueb 1999 (MASS-I)	17	72	44	72	100.0%	0.39 [0.25, 0.61]	_	
Total (95% CI)		72		72	100.0%	0.39 [0.25, 0.61]	•	
Total events	17		44					
Heterogeneity: Not app	licable						0.2 0.5 1	
Test for overall effect: 2	Z = 4.10 (F	o.00	001)					Favours Medical

6 Sub group interaction

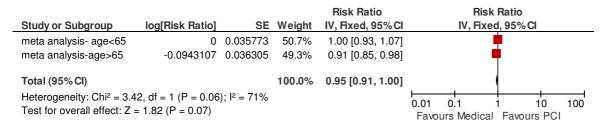
6.1 Age >and >65 yrs (Death) - Multivessel -LOng term follow-up

				Risk Ratio	Risk Ratio
Study or Subgroup	log[Risk Ratio]	SE	Weight	IV, Fixed, 95% CI	IV, Fixed, 95% CI
meta analysis- age<65	0.48858001	0.248612	34.1%	1.63 [1.00, 2.65]	<u>_</u>
meta analysis-age>65	-0.0202027	0.178665	65.9%	0.98 [0.69, 1.39]	=
Total (95% CI)			100.0%	1.17 [0.88, 1.55]	•
Heterogeneity: Chi ² = 2.7 Test for overall effect: Z); I ² = 64%			0.01 0.1 1 10 100 Favours Medical Favours PCI

6.2 Age < and >65 yrs (MI)-Multivessel -Long term follow-up

				Risk Ratio	Risk Ratio
Study or Subgroup	log[Risk Ratio]	SE	Weight	IV, Fixed, 95% CI	IV, Fixed, 95% Cl
meta analysis- age<65	-0.0943107	0.149111	59.0%	0.91 [0.68, 1.22]	•
meta analysis-age>65	-0.1053605	0.17884	41.0%	0.90 [0.63, 1.28]	+
Total (95% CI)			100.0%	0.91 [0.72, 1.13]	•
Heterogeneity: Chi ² = 0.0 Test for overall effect: Z =); I ² = 0%			0.01 0.1 1 10 100 Favours Medical Favours PCI

6.3 Age <65 and >65 yrs (Free of angina)- Multivessel- Long term follow-up)



6.4 Single vessel and 2 vessel (Death)- Long term follow-up

			Risk Ratio	Risk Ratio
Study or Subgroup	log[Risk Ratio]	SE Weigh	t IV, Fixed, 95% CI	IV, Fixed, 95% CI
meta analysis- single ves	0.37156356 0.255	944 72.59	6 1.45 [0.88, 2.39]	
meta analysis-2 vessel	0.12221763 0.415	6623 27.59	6 1.13 [0.50, 2.55]	<u> </u>
Total (95% CI)		100.0	% 1.35 [0.88, 2.08]	◆
Heterogeneity: $Chi^2 = 0.26$, Test for overall effect: $Z = 1$, , , ,	b		0.01 0.1 1 10 100 Favours Medical Favours PCI

6.5 Single vessel and 2 vessel (MI)- Long term follow-up

			Risk Ratio	Risk Ratio
Study or Subgroup	log[Risk Ratio] S	E Weight	IV, Fixed, 95% CI	IV, Fixed, 95% CI
meta analysis- single ves	-0.3285041 0.27822	26 75.9%	0.72 [0.42, 1.24]	-
meta analysis-2 vessel	0.01980263 0.49358	7 24.1%	1.02 [0.39, 2.68]	-
Total (95% CI)		100.0%	0.78 [0.49, 1.26]	•
Heterogeneity: $Chi^2 = 0.38$, Test for overall effect: $Z = 1$, , , ,			0.01 0.1 1 10 100 Favours Medical Favours PCI

1 Multivessel disease- short term follow-up (1 year)

1.1 Death

	Medic	al	PCI or C	ABG		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% Cl	M-H, Fixed, 95% CI
Pfisterer 2003 (TIME)	12	148	17	153	100.0%	0.73 [0.36, 1.47]	— —
Total (95% CI)		148		153	100.0%	0.73 [0.36, 1.47]	
Total events	12		17				
Heterogeneity: Not appl	icable						0.1 0.2 0.5 1 2 5 10
Test for overall effect: Z	= 0.88 (P	= 0.38)				0.1 0.2 0.5 1 2 5 10 Favours Medical Favours PCI or CABG

1.2 MI

	Medical		PCI or CABG			Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% Cl
Pfisterer 2003 (TIME)	20	148	14	153	100.0%	1.48 [0.78, 2.81]	+
Total (95% CI)		148		153	100.0%	1.48 [0.78, 2.81]	
Total events	20		14				
Heterogeneity: Not app Test for overall effect: Z		9 = 0.24)				0.2 0.5 1 2 5 Favours Medical Favours PCI or CABG

1.3 Non protocol revascularisation

	Medical		PCI or CABG		Risk Ratio			Risk Ratio				
Study or Subgroup	Events Total		Events	Total	Weight	eight M-H, Fixed, 95% Cl		M-H, Fixed, 95% Cl				
Pfisterer 2003 (TIME)	71	148	16	153	100.0%	4.59 [2.80, 7.51]				-		
Total (95% CI)		148		153	100.0%	4.59 [2.80, 7.51]				•		
Total events	71		16									
Heterogeneity: Not app	licable						0.02	0.1	+	1(`	50
Test for overall effect: Z	Z = 6.06 (P)	< 0.00	001)					vours Me	dical Fa		-	

2 Multi vessel disease- medium term follow-up (2 to 4 years)

2.1 Death

	Medic	al	PCI or C	ABG		Risk Ratio	Risk Ratio					
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI		M-H, Fixed, 95% Cl				
Pfisterer 2004 (TIME)	31	139	29	137	100.0%	1.05 [0.67, 1.65]		_				
Total (95% CI)		139		137	100.0%	1.05 [0.67, 1.65]		<				
Total events	31		29									
Heterogeneity: Not app Test for overall effect: 2		9 = 0.82)				0.2 Favo	0.5 urs Medica	1 2 I Favour	5 s PCI or CABG		

2.2 Non protocol revascularisation



2.3 Non fatal MI

	Medical Po		PCI or C	ABG		Risk Ratio	Risk Ratio			
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% Cl	M-H, Fix	ed, 95% Cl		
Pfisterer 2004 (TIME)	1	139	6	137	100.0%	0.16 [0.02, 1.35]		†		
Total (95% CI)		139		137	100.0%	0.16 [0.02, 1.35]		+		
Total events	1		6							
Heterogeneity: Not appl Test for overall effect: Z		o = 0.09)				0.002 0.1 Favours Medical	1 10 Favours PC	500 I or CABG	

3 Multi vessel disease- Long term follow-up (5 years)

3.1 Death (all patients with type 2 diabetes)

	Medic	al	PCI or C	CABG		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% CI
Frye et al 2009 (BARI-2D)	121	991	112	953	100.0%	1.04 [0.82, 1.32]	_
Total (95% CI)		991		953	100.0%	1.04 [0.82, 1.32]	•
Total events	121		112				
Heterogeneity: Not applicab	le						0.5 0.7 1 1.5 2
Test for overall effect: $Z = 0$.31 (P = 0)	.76)					Favours Medical Favours PCI or CABG

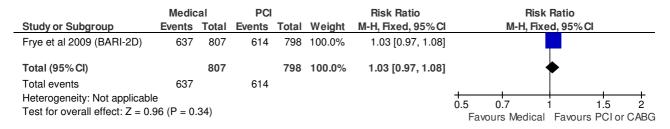
3.2 Death (in PCI stratum in BARI-2D)

	Medic	al	PCI			Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% CI
Frye et al 2009 (BARI-2D)	82	807	86	798	100.0%	0.94 [0.71, 1.26]	_
Total (95% CI)		807		798	100.0%	0.94 [0.71, 1.26]	
Total events	82		86				
Heterogeneity: Not applicabl Test for overall effect: Z = 0.		.69)					0.5 0.7 1 1.5 2 Favours Medical Favours PCI or CABG

3.3 Death (in CABG stratum in BARI-2D)

	Medic	al	CAB	G		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% Cl
Frye et al 2009 (BARI-2D)	63	385	51	378	100.0%	1.21 [0.86, 1.71]	+
Total (95% CI)		385		378	100.0%	1.21 [0.86, 1.71]	•
Total events	63		51				
Heterogeneity: Not applicable	е						0.2 0.5 1 2 5
Test for overall effect: $Z = 1$.	11 (P = 0	.27)					Favours Medical Favours PCI or CABG

3.4 Freedom from CV events (death, MI or stroke) - PCI stratum (BARI-2D)



3.5 Freedom from CV events (death, MI or stroke)- CABG stratum(BARI-2D)

	Medic	al	CAB	G		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% Cl	M-H, Fixed, 95% CI
Frye et al 2009 (BARI-2D)	268	385	293	378	100.0%	0.90 [0.82, 0.98]	-
Total (95% CI)		385		378	100.0%	0.90 [0.82, 0.98]	•
Total events	268		293				
Heterogeneity: Not applicable	е						0.5 0.7 1 1.5 2
Test for overall effect: $Z = 2$.	47 (P = 0.	01)					0.5 0.7 1 1.5 2 Favours Medical Favours PCI or CABG

4 Angiography prior randomisation - Multivessel disease short term

4.1 Death

	Medic	al	PCI or C	ABG		Risk Ratio		Risl	k Ratio	
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI		M-H, Fix	ed, 95% CI	
Rogers 1995 (ACIP)	8	183	0	192	100.0%	17.83 [1.04, 306.73]				
Total (95% CI)		183		192	100.0%	17.83 [1.04, 306.73]				
Total events	8		0							
Heterogeneity: Not ap Test for overall effect:		P = 0.0	5)				0.001 Favo	0.1 urs Medica	1 10 I Favours P0	1000 Cl or CABG

4.2 MI

	Medic	al	PCI or C	ABG		Risk Ratio		Ri	sk Ratio		
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI		M-H, F	Fixed, 95%	6 CI	
Rogers 1995 (ACIP)	10	183	5	192	100.0%	2.10 [0.73, 6.02]				_	
Total (95% CI)		183		192	100.0%	2.10 [0.73, 6.02]				-	
Total events	10		5								
Heterogeneity: Not ap Test for overall effect:		P = 0.1	7)				0.01 Fa	0.1 vours Medic	1 cal Favou	10 urs PCI	100 or CABG

4.3 Non protocol revascularisation

	Medic	al	PCI or C	ABG		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% CI
Rogers 1995 (ACIP)	44	183	18	192	100.0%	2.56 [1.54, 4.27]	-
Total (95% CI)		183		192	100.0%	2.56 [1.54, 4.27]	•
Total events	44		18				
Heterogeneity: Not app	olicable						0.1 0.2 0.5 1 2 5 10
Test for overall effect:	Z = 3.62 (P = 0.0	003)				Favours Medical Favours PCI or CABG

5 Angiography prior randomisation- Multivessel disease medium term follow-up

5.1 Death

	Medic	al	PCI or C	ABG		Risk Ratio		Risk	Ratio	
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI		M-H, Fixe	ed, 95% CI	
Davies 1997 (ACIP)	12	183	2	192	100.0%	6.30 [1.43, 27.74]				
Total (95% CI)		183		192	100.0%	6.30 [1.43, 27.74]			-	
Total events	12		2							
Heterogeneity: Not app Test for overall effect:		P = 0.0	2)				0.005 Favo	0.1 urs Medical	1 10 Favours P(200 Cl or CABG

5.2 Non protocol revascularisation

	Medic	al	PCI or C	ABG		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% Cl
Davies 1997 (ACIP)	56	183	25	192	100.0%	2.35 [1.54, 3.60]	-
Total (95% CI)		183		192	100.0%	2.35 [1.54, 3.60]	•
Total events	56		25				
Heterogeneity: Not app	olicable						01 02 05 1 2 5 10
Test for overall effect:	Z = 3.93 (P < 0.0	001)				0.1 0.2 0.5 1 2 5 10 Favours Medical Favours PCI or CABG

6 Interaction between study group assignment (BARI-2D trial)

6.1 Death in PCI stratum and CABG startum



6.2 Freedom from CV events- PCI stratum and CABG stratum

			Risk Ratio	Risk Ratio
Study or Subgroup	log[Risk Ratio] S	E Weight	IV, Fixed, 95% CI	IV, Fixed, 95% CI
CABG stratum-BARI 2D	-0.1053605 0.04547	1 26.6%	0.90 [0.82, 0.98]	•
PCI stratum- BARI 2D	0.0295588 0.02740	3 73.4%	1.03 [0.98, 1.09]	.
Total (95% CI)		100.0%	0.99 [0.95, 1.04]	
Heterogeneity: $Chi^2 = 6.46$ Test for overall effect: $Z =$	6, df = 1 (P = 0.01); I ² = 85% 0.27 (P = 0.79)	•		0.01 0.1 1 10 100 Favours Medical Favours Medical

PCI versus CABG for Stable angina

1 Multi vessel disease - Immediate follow-up

1.1 Stroke

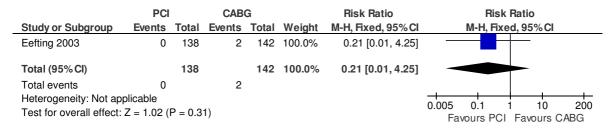
	PCI		CAB	G		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% CI
Eefting 2003	0	138	0	142		Not estimable	
Hamm 1994 (GABI)	0	176	2	161	16.7%	0.18 [0.01, 3.78]	•
Hampton 1993 (RITA)	1	509	5	498	32.3%	0.20 [0.02, 1.67]	
King 1994 (EAST)	1	198	3	194	19.4%	0.33 [0.03, 3.11]	
Zhang 2006 (SOS)	3	488	5	500	31.6%	0.61 [0.15, 2.56]	
Total (95% CI)		1509		1495	100.0%	0.35 [0.13, 0.92]	•
Total events	5		15				
Heterogeneity: Chi ² = 1.0	06, df = 3	(P = 0.7)	79); I ² = 0	%			1 1 10 100
Test for overall effect: Z	= 2.12 (P	= 0.03)					0.01 0.1 1 10 100 Favours PCI Favours CABG

2 Multivessel disease -Short term follow-up (1 yr)

2.1 Death (all causes)

	PCI		CAB	G		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% CI
Eefting 2003	0	138	4	142	7.8%	0.11 [0.01, 2.10]	-
Hamm 1994 (GABI)	4	155	9	139	16.6%	0.40 [0.13, 1.27]	
Hueb 2004 (MASS- II)	9	205	8	203	14.1%	1.11 [0.44, 2.83]	-
Rickards 1995 (CABRI)	21	541	14	513	25.1%	1.42 [0.73, 2.77]	
Serruys 2001 (ARTS)	15	600	17	605	29.6%	0.89 [0.45, 1.77]	-
Sigwart 2002 (SOS)	12	488	4	500	6.9%	3.07 [1.00, 9.46]	-
Total (95% CI)		2127		2102	100.0%	1.06 [0.75, 1.52]	•
Total events	61		56				
Heterogeneity: Chi ² = 9.45	5, df = 5 (1)	= 0.09	9); I ² = 47	%			0.01 0.1 1 10 100
Test for overall effect: Z =	0.34 (P =	0.73)					Favours PCI Favours CABG

2.2 Cardiac mortality



2.3 Non fatal MI

	PCI		CAB	G		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% CI
Eefting 2003	6	138	7	142	6.5%	0.88 [0.30, 2.56]	 -
Hamm 1994 (GABI)	7	155	13	139	13.0%	0.48 [0.20, 1.18]	
Hueb 2004 (MASS- II)	16	205	4	203	3.8%	3.96 [1.35, 11.64]	
Rickards 1995 (CABRI)	27	541	18	513	17.5%	1.42 [0.79, 2.55]	+-
Serruys 2001 (ARTS)	37	600	29	605	27.4%	1.29 [0.80, 2.06]	+-
Sigwart 2002 (SOS)	21	488	34	500	31.8%	0.63 [0.37, 1.07]	
Total (95% CI)		2127		2102	100.0%	1.07 [0.83, 1.39]	•
Total events	114		105				
Heterogeneity: Chi ² = 14.	14, df = 5	(P = 0.0)	$(1); I^2 = 6$	5%			0.1 0.2 0.5 1 2 5 10
Test for overall effect: Z =	0.54 (P =	0.59)					Favours PCI Favours CABG

2.4 Repeat revascularisation

	PCI		CAB	G		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% Cl	M-H, Fixed, 95% Cl
Eefting 2003	21	138	6	142	6.3%	3.60 [1.50, 8.65]	 -
Hamm 1994 (GABI)	91	155	9	139	10.1%	9.07 [4.76, 17.29]	-
Hueb 2004 (MASS- II)	25	205	1	203	1.1%	24.76 [3.39, 180.98]	
Rickards 1995 (CABRI)	182	541	33	513	36.1%	5.23 [3.68, 7.43]	-
Serruys 2001 (ARTS)	126	600	23	605	24.4%	5.52 [3.59, 8.49]	-
Sigwart 2002 (SOS)	93	488	21	500	22.1%	4.54 [2.87, 7.16]	-
Total (95% CI)		2127		2102	100.0%	5.64 [4.57, 6.97]	•
Total events	538		93				
Heterogeneity: Chi ² = 6.2	7, df = 5 (I)	o = 0.28	3); I ² = 20	%			0.01 0.1 1 10 100
Test for overall effect: Z =	16.07 (P	< 0.000	001)				0.01 0.1 1 10 100 Favours PCI Favours CABG

2.5 Free of angina

	PCI		CAB	G		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% Cl	M-H, Fixed, 95% Cl
Eefting 2003	108	138	120	142	7.3%	0.93 [0.83, 1.04]	
Hamm 1994 (GABI)	110	155	102	139	6.6%	0.97 [0.84, 1.11]	
Hueb 2004 (MASS- II)	107	205	120	203	7.4%	0.88 [0.74, 1.05]	
Rickards 1995 (CABRI)	328	541	350	513	22.1%	0.89 [0.81, 0.97]	
Serruys 2001 (ARTS)	473	600	541	605	33.2%	0.88 [0.84, 0.93]	-
Sigwart 2002 (SOS)	309	471	387	493	23.3%	0.84 [0.77, 0.91]	
Total (95% CI)		2110		2095	100.0%	0.88 [0.85, 0.91]	♦
Total events	1435		1620				
Heterogeneity: Chi ² = 4.1	1, df = 5 (F	P = 0.53	3); I ² = 0%	0			0.5 0.7 1 1.5 2
Test for overall effect: Z =	6.76 (P <	0.0000)1)				Favours CABG Favours PCI

2.6 Stroke

	PCI		CAB	G		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% Cl
Eefting 2003	0	138	0	142		Not estimable	
Hueb 2004 (MASS- II)	2	205	3	203	12.6%	0.66 [0.11, 3.91]	
Serruys 2001 (ARTS)	10	600	13	605	54.3%	0.78 [0.34, 1.76]	
Sigwart 2002 (SOS)	7	488	8	500	33.1%	0.90 [0.33, 2.45]	_
Total (95% CI)	1	1431		1450	100.0%	0.80 [0.44, 1.45]	•
Total events	19		24				
Heterogeneity: Chi ² = 0.	10, df = 2 (F	o = 0.9	95); $I^2 = 0$	%			
Test for overall effect: Z	= 0.73 (P =	0.47)					0.05 0.2 1 5 20 Favours PCI Favours CABG

2.7 Subgroup-diabetes- Death (all causes)

	PCI		CAB	G		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% Cl
Abizaid 2001 (ARTS)	7	112	3	96	21.2%	2.00 [0.53, 7.52]	 • • • • • • • • • • • • • • • • • • •
Kapur 2009 (CARDia trial)	8	254	8	248	53.2%	0.98 [0.37, 2.56]	
Soares 2006 (MASS-II)	3	56	4	59	25.6%	0.79 [0.19, 3.37]	
Total (95% CI)		422		403	100.0%	1.15 [0.58, 2.25]	•
Total events	18		15				
Heterogeneity: Chi ² = 1.04, c	lf = 2 (P =	0.60);	$I^2 = 0\%$				0.05 0.2 1 5 20
Test for overall effect: $Z = 0$.	39 (P = 0.	69)					Favours PCI Favours CABG

2.8 Subgroup diabetes-MI

	PCI		CAB	G		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% CI
Abizaid 2001 (ARTS)	7	112	3	96	18.6%	2.00 [0.53, 7.52]	
Kapur 2009 (CARDia trial)	25	254	14	248	81.4%	1.74 [0.93, 3.28]	-
Total (95% CI)		366		344	100.0%	1.79 [1.01, 3.17]	•
Total events	32		17				
Heterogeneity: Chi ² = 0.03, o	df = 1 (P =	0.85);	$I^2 = 0\%$				0.05 0.2 1 5 20
Test for overall effect: $Z = 2$.	01 (P = 0.	04)					Favours PCI Favours CABG

2.9 Subgroup diabetes- Repeat revascularisation



2.10 Sub group diabetes- Non fatal stroke

	PCI		CAB	G		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% Cl	M-H, Fixed, 95% CI
Kapur 2009 (CARDia trial)	1	254	7	248	100.0%	0.14 [0.02, 1.13]	
Total (95% CI)		254		248	100.0%	0.14 [0.02, 1.13]	
Total events	1		7				
Heterogeneity: Not applicable	е						0.01 0.1 1 10 100
Test for overall effect: $Z = 1$.	85 (P = 0.	06)					Favours PCI Favours CABG

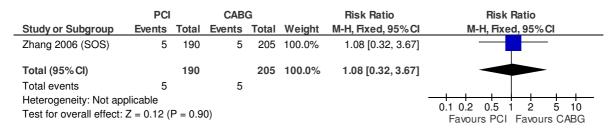
2.11 Subgroup age>65 yrs- Death (all causes)

	PCI		CAB	CABG		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% Cl
Zhang 2006 (SOS)	4	190	1	205	100.0%	4.32 [0.49, 38.27]	
Total (95% CI)		190		205	100.0%	4.32 [0.49, 38.27]	
Total events	4		1				
Heterogeneity: Not app	plicable						0.01 0.1 1 10 100
Test for overall effect:	Z = 1.31 (P = 0.1	9)				Favours PCI Favours CABG

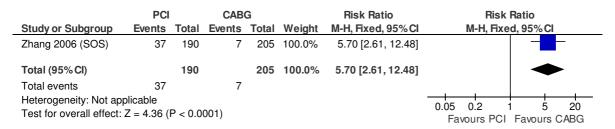
2.12 subgroup age>65 yrs-MI

	PCI		CAB	G		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% CI
Zhang 2006 (SOS)	13	190	17	205	100.0%	0.83 [0.41, 1.65]	_
Total (95% CI)		190		205	100.0%	0.83 [0.41, 1.65]	
Total events	13		17				
Heterogeneity: Not ap Test for overall effect:	•	P = 0.5	9)				0.1 0.2 0.5 1 2 5 10 Favours PCI Favours CABG

2.13 Subgroup age>65 yrs- stroke



2.14 subgroup age>65 yrs- repeat revascularisation



2.15 Sub group age <65 yrs- Death

	PCI		CAB	G		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% Cl
Zhang 2006 (SOS)	8	298	3	295	100.0%	2.64 [0.71, 9.85]	+
Total (95% CI)		298		295	100.0%	2.64 [0.71, 9.85]	
Total events	8		3				
Heterogeneity: Not app Test for overall effect: 2		P = 0.1	5)				0.01 0.1 1 10 100 Favours PCI Favours CABG

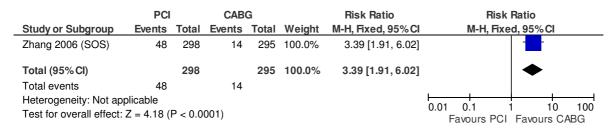
2.16 Sub group age <65 yrs-MI

	PCI		CAB	G		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% CI
Zhang 2006 (SOS)	8	298	17	295	100.0%	0.47 [0.20, 1.06]	-
Total (95% CI)		298		295	100.0%	0.47 [0.20, 1.06]	•
Total events	8		17				
Heterogeneity: Not app	olicable						0.01 0.1 1 10 100
Test for overall effect:	Z = 1.82 (P = 0.0	7)				Favours PCI Favours CABG

2.17 Sub group age<65 yrs- Stroke



2.18 Sub group age<65 yrs- Repeat revascularisation



3 Multi vessel disease - Medium term follow-up (>1-4 yrs)

3.1 Death (all causes)

	PCI		CAB	G		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% CI
Hampton 1993 (RITA)	16	510	18	501	25.4%	0.87 [0.45, 1.69]	-
King 1994 (EAST)	14	198	12	194	17.0%	1.14 [0.54, 2.41]	
Legrand 2004 (ARTS)	22	600	28	605	39.0%	0.79 [0.46, 1.37]	-
Martuscelli 2008 (CABRI)	15	120	5	103	7.5%	2.58 [0.97, 6.84]	
Sigwart 2002 (SOS)	22	488	8	500	11.1%	2.82 [1.27, 6.27]	
Total (95% CI)		1916		1903	100.0%	1.23 [0.91, 1.67]	•
Total events	89		71				
Heterogeneity: Chi ² = 9.88,	df = 4 (P :	= 0.04);	$I^2 = 60\%$				0.01 0.1 1 10 100
Test for overall effect: Z = 1	.33 (P = 0	.18)					0.01 0.1 1 10 100 Favours PCI Favours CABG

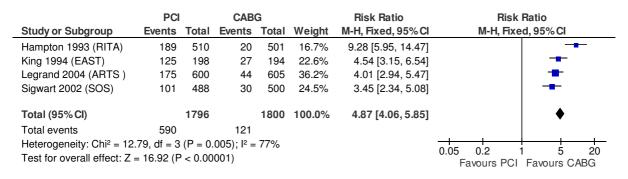
3.2 Cardiac mortality

	PCI		CAB	G		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% CI
Hampton 1993 (RITA)	4	510	4	501	50.5%	0.98 [0.25, 3.91]	- •
Sigwart 2002 (SOS)	9	488	4	500	49.5%	2.31 [0.71, 7.44]	+-
Total (95% CI)		998		1001	100.0%	1.64 [0.68, 3.92]	
Total events	13		8				
Heterogeneity: Chi ² = 0.8	85, df = 1	(P = 0.3)	36); $I^2 = 0$	1%			0.01 0.1 1 10 100
Test for overall effect: Z	= 1.10 (P	= 0.27)					Favours PCI Favours CABG

3.3 Non fatal MI

	PC		CAB	G		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% CI
Hampton 1993 (RITA)	34	510	26	501	25.8%	1.28 [0.78, 2.11]	 -
King 1994 (EAST)	29	198	38	194	37.7%	0.75 [0.48, 1.16]	 +
Legrand 2004 (ARTS)	44	600	34	605	33.3%	1.30 [0.85, 2.01]	
Martuscelli 2008 (CABRI)	8	120	3	103	3.2%	2.29 [0.62, 8.40]	
Total (95% CI)		1428		1403	100.0%	1.12 [0.87, 1.45]	•
Total events	115		101				
Heterogeneity: Chi ² = 5.16,	df = 3 (P	= 0.16);	$I^2 = 42\%$				0.05 0.2 1 5 20
Test for overall effect: $Z = 0$	0.88 (P = 0.88)	.38)					Favours PCI Favours CABG

3.4 Repeat revascularisation



3.5 Free of angina

	PCI		CAB	G		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% Cl
Unger 2003 (ARTS)	478	600	527	605	100.0%	0.91 [0.87, 0.96]	
Total (95% CI)		600		605	100.0%	0.91 [0.87, 0.96]	•
Total events	478		527				
Heterogeneity: Not app	olicable						0.5 0.7 1 1.5 2
Test for overall effect:	Z = 3.45 (P = 0.0	006)				Favours CABG Favours PCI

3.6 Stroke

	PCI		CAB	G		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% CI
Legrand 2004 (ARTS)	20	600	20	605	100.0%	1.01 [0.55, 1.85]	_
Total (95% CI)		600		605	100.0%	1.01 [0.55, 1.85]	*
Total events	20		20				
Heterogeneity: Not applic	cable						0.2 0.5 1 2 5
Test for overall effect: Z	= 0.03 (P =	= 0.98)					0.2 0.5 1 2 5 Favours PCI Favours CABG

3.7 Sub group diabetes- Mortality

	PCI		CABO	à		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% Cl
Booth 2008 (SOS)	3	68	1	74	7.3%	3.26 [0.35, 30.64]	-
Kurbaan 2001 (CABRI)	14	62	8	63	60.1%	1.78 [0.80, 3.94]	+
Legrand 2004 (ARTS)	8	112	4	96	32.6%	1.71 [0.53, 5.52]	 •
Total (95% CI)		242		233	100.0%	1.87 [0.99, 3.50]	•
Total events	25		13				
Heterogeneity: Chi ² = 0.2	7, df = 2 (P = 0.8	7); I ² = 0%				0.05 0.0 1 5 0.0
Test for overall effect: Z =	1.94 (P =	= 0.05)					0.05 0.2 1 5 20 Favours PCI Favours CABG

3.8 Sub group diabetes- MI



3.9 Sub group diabetes- Repeat revascularisation



3.10 Sub group- Left Anterior descending coronary artery proximally- Death

	PCI		CAB	G		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% Cl
Aoki 2004 (ARTS)	11	246	11	253	100.0%	1.03 [0.45, 2.33]	-
Total (95% CI)		246		253	100.0%	1.03 [0.45, 2.33]	•
Total events	11		11				
Heterogeneity: Not app	olicable						0.01 0.1 1 10 100
Test for overall effect:	Z = 0.07 (P = 0.9	5)				Favours PCI Favours CABG

3.11 Sub group LAD artery- Stroke

	PCI		CAB	G		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% CI
Aoki 2004 (ARTS)	5	246	7	253	100.0%	0.73 [0.24, 2.28]	-
Total (95% CI)		246		253	100.0%	0.73 [0.24, 2.28]	
Total events	5		7				
Heterogeneity: Not ap Test for overall effect:	•	P = 0.5	9)				0.01 0.1 1 10 100
root for overall effect.	_ = 0.00 (. – 0.0	0)				Favours PCI Favours CABG

3.12 Sub group LAD artery- MI



3.13 Sub group LAD artery- Repeat revascularisation



4 Multi vessel disease - Long term follow-up (> 5 yrs)

4.1 Death (all causes)

	PCI	CAB	G		Risk Ratio	Risk Ratio
Study or Subgroup	Events Total	al Events	Total	Weight	M-H, Fixed, 95% Cl	M-H, Fixed, 95% Cl
Buszman 2009 (SOS)	9 5	0 10	50	6.0%	0.90 [0.40, 2.02]	
Henderson 1998 (RITA)	22 27	7 24	279	14.4%	0.92 [0.53, 1.61]	
Hueb 2010 (MASS-II)	49 20	5 51	203	30.8%	0.95 [0.68, 1.34]	-
Kaehler (GABI 2005)	41 16	4 35	160	21.3%	1.14 [0.77, 1.70]	
Serruys2005 (ARTS)	48 60	0 46	605	27.5%	1.05 [0.71, 1.55]	-
Total (95% CI)	129	6	1297	100.0%	1.01 [0.83, 1.23]	*
Total events	169	166				
Heterogeneity: Chi ² = 0.71	df = 4 (P = 0)	95); I ² = 0%	, D		-	0.2 0.5 1 2 5
Test for overall effect: Z =	0.13 (P = 0.90)				Favours PCI Favours CABG

4.2 Cardiac mortality

	PCI		CABO	G		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% CI
Booth 2008 (SOS)	20	488	11	500	28.5%	1.86 [0.90, 3.85]	+
Henderson 1998 (RITA)	9	277	7	279	18.3%	1.29 [0.49, 3.43]	- •
Kaehler (GABI 2005)	18	164	20	160	53.2%	0.88 [0.48, 1.60]	-
Total (95% CI)		929		939	100.0%	1.24 [0.82, 1.87]	•
Total events	47		38				
Heterogeneity: Chi ² = 2.49	, df = 2 (P =	= 0.29); I ² = 20%	%			01 02 05 1 2 5 10
Test for overall effect: Z =	1.01 (P = 0).31)					0.1 0.2 0.5 1 2 5 10 Favours PCI Favours CABG

4.3 Non fatal MI

	PCI		CAB	G		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% Cl
Henderson 1998 (RITA)	24	277	20	279	25.0%	1.21 [0.68, 2.14]	 •
Hueb 2010 (MASS-II)	27	205	21	203	26.4%	1.27 [0.74, 2.18]	- •
Serruys2005 (ARTS)	51	600	39	605	48.6%	1.32 [0.88, 1.97]	 •
Total (95% CI)		1082		1087	100.0%	1.28 [0.97, 1.69]	•
Total events	102		80				
Heterogeneity: Chi ² = 0.06	df = 2 (F	P = 0.97); I ² = 0%)			0.2 0.5 1 2 5
Test for overall effect: Z =	1.72 (P =	0.08)					Favours PCI Favours CABG

4.4 Repeat revascularisation

	PCI		CAB	G		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% Cl
Buszman 2009 (SOS)	21	50	9	50	3.6%	2.33 [1.19, 4.58]	
Henderson 1998 (RITA)	161	277	32	279	12.6%	5.07 [3.60, 7.13]	
Hueb 2010 (MASS-II)	85	205	15	203	6.0%	5.61 [3.36, 9.38]	
Kaehler (GABI 2005)	136	164	94	160	37.7%	1.41 [1.22, 1.64]	-
King 2000 (EAST)	129	198	51	194	20.4%	2.48 [1.92, 3.20]	
Serruys2005 (ARTS)	139	600	50	605	19.7%	2.80 [2.07, 3.79]	_ -
Total (95% CI)		1494		1491	100.0%	2.65 [2.35, 2.98]	•
Total events	671		251				
Heterogeneity: Chi ² = 92.8	7, df = 5 (P < 0.0	0001); I ²	= 95%		-	0.2 0.5 1 2 5
Test for overall effect: Z =							0.2 0.5 1 2 5 Favours PCI Favours CABG

4.5 Stroke

	PCI		CAB	G		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% CI
Hueb 2010 (MASS-II)	11	205	17	203	45.0%	0.64 [0.31, 1.33]	
Serruys2005 (ARTS)	23	600	21	605	55.0%	1.10 [0.62, 1.97]	-
Total (95% CI)		805		808	100.0%	0.90 [0.57, 1.41]	•
Total events	34		38				
Heterogeneity: Chi ² = 1 Test for overall effect: Z	-	,	, -	23%			0.05 0.2 1 5 20 Favours PCI Favours CABG

4.6 Free of angina

	PCI		CAB	G		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% CI
Hueb 2010 (MASS-II)	120	205	130	203	20.4%	0.91 [0.78, 1.07]	
Serruys2005 (ARTS)	467	600	511	605	79.6%	0.92 [0.87, 0.97]	•
Total (95% CI)		805		808	100.0%	0.92 [0.87, 0.97]	•
Total events	587		641				
Heterogeneity: Chi ² = 0.	01, df = 1	(P = 0.1)	92); I ² = 0)%			0.5 0.7 1 1.5 2
Test for overall effect: Z	= 3.04 (P)	= 0.00	2)				Favours PCI Favours CABG

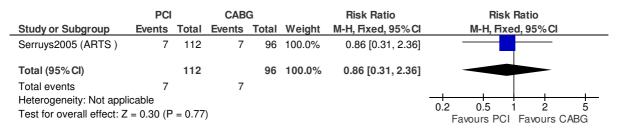
4.7 Sub group diabetes - Death (all causes)

	PCI		CAB	G		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% Cl
Booth 2008 (SOS)	12	68	4	74	19.2%	3.26 [1.11, 9.64]	
Henderson 1998 (RITA)	2	29	8	33	37.6%	0.28 [0.07, 1.23]	
Serruys2005 (ARTS)	15	112	8	96	43.2%	1.61 [0.71, 3.63]	+
Total (95% CI)		209		203	100.0%	1.43 [0.83, 2.47]	•
Total events	29		20				
Heterogeneity: Chi ² = 6.97	', df = 2 (F	9 = 0.03); I ² = 71°	%			0.02 0.1 1 10 50
Test for overall effect: Z =	1.28 (P =	0.20)					0.02 0.1 1 10 50 Favours PCI Favours CABG

4.8 Sub group diabetes- Repeat revascularisation

	PCI		CAB	G		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% CI
Serruys2005 (ARTS)	48	112	10	96	100.0%	4.11 [2.20, 7.68]	-
Total (95% CI)		112		96	100.0%	4.11 [2.20, 7.68]	•
Total events	48		10				
Heterogeneity: Not app Test for overall effect: 2		o < 0.00	001)				0.05 0.2 1 5 20 Favours PCI Favours CABG

4.9 Sub group diabetes- stroke



4.10 Sub group diabetes- MI

	PCI		CAB	G		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% CI
Serruys2005 (ARTS)	12	112	7	96	100.0%	1.47 [0.60, 3.58]	_
Total (95% CI)		112		96	100.0%	1.47 [0.60, 3.58]	
Total events	12		7				
Heterogeneity: Not appl	icable						0.05 0.0 1 5 00
Test for overall effect: Z	= 0.85 (P	r = 0.40)				0.05 0.2 1 5 20 Favours PCI Favours CABG

4.11 Sub group-no diabetes -Death (all causes)

	PCI		CAB	G		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% CI
Booth 2008 (SOS)	41	420	30	426	44.5%	1.39 [0.88, 2.18]	+=-
Serruys2005 (ARTS)	33	488	38	509	55.5%	0.91 [0.58, 1.42]	-
Total (95% CI)		908		935	100.0%	1.12 [0.82, 1.54]	
Total events	74		68				
Heterogeneity: Chi ² = 1 Test for overall effect: 2				42%			0.2 0.5 1 2 5 Favours PCI Favours CABG

4.12 Sub group no diabetes- stroke

	PCI		CAB	G		Risk Ratio			Risk	Ratio		
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI		M-F	l, Fixe	d, 95°	%CI	
Serruys2005 (ARTS)	16	488	14	509	100.0%	1.19 [0.59, 2.42]		_				
Total (95% CI)		488		509	100.0%	1.19 [0.59, 2.42]		-				_
Total events	16		14									
Heterogeneity: Not app	licable					_		F 0	 	-	-	
Test for overall effect: Z = 0.49 (P = 0.63)							-	vours				2 CABG

4.13 Sub group no diabetes- MI

	PCI		CAB	G		Risk Ratio	Risk Ratio
Study or Subgroup	Events T	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% Cl
Serruys2005 (ARTS)	38	488	31	509	100.0%	1.28 [0.81, 2.02]	_
Total (95% CI)		488		509	100.0%	1.28 [0.81, 2.02]	
Total events	38		31				
Heterogeneity: Not appli	icable					·	0.5 0.7 1 1.5 2
Test for overall effect: Z	= 1.05 (P =	= 0.29))				Favours PCI Favours CABG

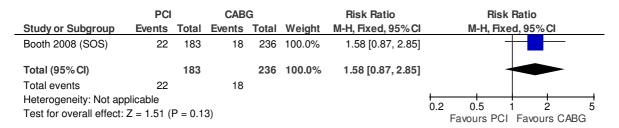
4.14 Sub group no diabetes- Repeat revascularisation



4.15 Sub group 2 vessel- Death

	PCI		CAB	G		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% CI
Booth 2008 (SOS)	31	305	16	264	100.0%	1.68 [0.94, 3.00]	+
Total (95% CI)		305		264	100.0%	1.68 [0.94, 3.00]	•
Total events	31		16				
Heterogeneity: Not app Test for overall effect:		P = 0.0	8)				0.1 0.2 0.5 1 2 5 10 Favours PCI Favours CABG

4.16 Sub group 3 vessel -Death



5 Single vessel disease - Short term follow-up (1 yr)

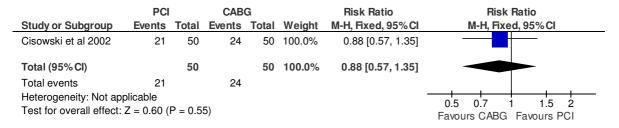
5.1 Death (all causes)

	PCI		CAB	G		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% CI
Cisowski et al 2002	1	50	0	50	100.0%	3.00 [0.13, 71.92]	
Total (95% CI)		50		50	100.0%	3.00 [0.13, 71.92]	
Total events	1		0				
Heterogeneity: Not ap	olicable						0.02 0.1 1 10 50
Test for overall effect:	Z = 0.68 (P = 0.5	0)				0.02 0.1 1 10 50 Favours PCI Favours CABG

5.2 MI

	PCI		CAB	G		Risk Ratio	Risk	Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixe	d, 95% Cl
Cisowski et al 2002	0	50	0	50		Not estimable		
Total (95% CI)		50		50		Not estimable		
Total events	0		0					
Heterogeneity: Not app	olicable						0.01 0.1	10 100
Test for overall effect:	Not applic	able					0.01 0.1 Favours PCI	I 10 100 Favours CABG

5.3 Free of angina



6 Single vessel disease - Medium term follow-up (>1-4 yrs)

6.1 Death (all causes)

	PCI		CAB	G		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% Cl
Drenth et al 2004	0	51	3	51	53.3%	0.14 [0.01, 2.70]	←
Goy et al 2000 (SIMA)	1	62	2	59	31.2%	0.48 [0.04, 5.11]	
Hueb 1995 (MASS-I)	1	72	1	70	15.4%	0.97 [0.06, 15.24]	
Total (95% CI)		185		180	100.0%	0.37 [0.09, 1.60]	
Total events	2		6				
Heterogeneity: Chi ² = 0.9	91, df = 2	(P = 0.6)	$(63); I^2 = 0$	%			0.01 0.1 1 10 100
Test for overall effect: Z	= 1.33 (P	= 0.18)					Favours PCI Favours CABG

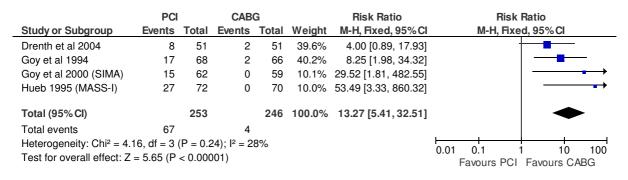
6.2 Cardiac death

	PCI		CABO	a .		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% CI
Drenth et al 2004	0	51	2	51	49.5%	0.20 [0.01, 4.07]	
Goy et al 1994	0	68	1	66	30.2%	0.32 [0.01, 7.81]	-
Goy et al 2000 (SIMA)	1	62	1	59	20.3%	0.95 [0.06, 14.87]	
Total (95% CI)		181		176	100.0%	0.39 [0.08, 2.00]	
Total events	1		4				
Heterogeneity: Chi ² = 0.6	61, df = 2	(P = 0.7)	$(74); I^2 = 0$	%			0.01 0.1 1 10 100
Test for overall effect: Z	= 1.13 (P	= 0.26)					0.01 0.1 1 10 100 Favours PCI Favours CABG

6.3 MI

	PCI		CAB	G		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% CI
Drenth et al 2004	5	51	1	51	16.4%	5.00 [0.61, 41.31]	
Goy et al 1994	8	68	2	66	33.3%	3.88 [0.86, 17.61]	
Goy et al 2000 (SIMA)	3	62	2	59	33.6%	1.43 [0.25, 8.24]	- -
Hueb 1995 (MASS-I)	2	72	1	70	16.6%	1.94 [0.18, 20.96]	
Total (95% CI)		253		246	100.0%	2.92 [1.18, 7.21]	•
Total events	18		6				
Heterogeneity: Chi ² = 1.1	4, df = 3	(P = 0.7)	$(77); I^2 = 0$	%			
Test for overall effect: Z	= 2.32 (P	= 0.02)					0.01 0.1 1 10 100 Favours PCI Favours CABG

6.4 Repeat revascularisation



6.5 Free of angina

	PCI		CAB	G		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% Cl
Drenth et al 2004	34	51	41	48	24.7%	0.78 [0.62, 0.98]	
Goy et al 1994	52	68	59	66	35.0%	0.86 [0.73, 1.00]	
Hueb 1995 (MASS-I)	58	72	68	70	40.3%	0.83 [0.74, 0.94]	-
Total (95% CI)		191		184	100.0%	0.83 [0.75, 0.91]	•
Total events	144		168				
Heterogeneity: Chi ² = 0	0.44, df = 2	(P = 0)	.80); I ² =	0%			0.5 0.7 1 1.5 2
Test for overall effect: 2	Z = 4.08 (F	o.00	001)				Favours CABG Favours PCI

6.6 Stroke

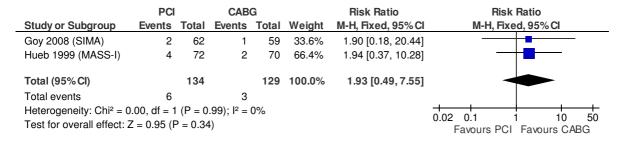
	PCI		CAB	G		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% Cl
Drenth et al 2004	2	51	0	51	100.0%	5.00 [0.25, 101.63]	
Goy et al 2000 (SIMA)	0	62	0	59		Not estimable	_
Total (95% CI)		113		110	100.0%	5.00 [0.25, 101.63]	
Total events	2		0				
Heterogeneity: Not appli	cable						0.01 0.1 1 10 100
Test for overall effect: Z	= 1.05 (P	= 0.29)					0.01 0.1 1 10 100 Favours PCI Favours CABG

7 Single vessel disease - Long term follow-up (>5 yrs)

7.1 Death (all causes)

	PCI		CAB	G		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% Cl	M-H, Fixed, 95% CI
Goy 2008 (SIMA)	5	62	4	59	14.8%	1.19 [0.34, 4.22]	
Henderson 1998 (RITA)	17	233	21	222	77.8%	0.77 [0.42, 1.42]	—
Hueb 1999 (MASS-I)	6	72	2	70	7.3%	2.92 [0.61, 13.97]	 •
Total (95% CI)		367		351	100.0%	0.99 [0.60, 1.65]	•
Total events	28		27				
Heterogeneity: Chi ² = 2.55	df = 2 (F)	P = 0.28	s); I ² = 22 ⁴	%			0.05 0.2 1 5 20
Test for overall effect: Z =	0.04 (P =	0.97)					Favours PCI Favours CABG

7.2 Cardiac death



7.3 MI

	PCI		CAB	G		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% Cl	M-H, Fixed, 95% CI
Goy 2008 (SIMA)	3	62	3	59	13.1%	0.95 [0.20, 4.53]	
Henderson 1998 (RITA)	31	233	17	222	74.0%	1.74 [0.99, 3.05]	-
Hueb 1999 (MASS-I)	4	72	3	70	12.9%	1.30 [0.30, 5.58]	
Total (95% CI)		367		351	100.0%	1.58 [0.96, 2.59]	•
Total events	38		23				
Heterogeneity: Chi ² = 0.59	, df = 2 (F	r = 0.75	i); I ² = 0%				0.1 0.2 0.5 1 2 5 10
Test for overall effect: Z =	1.81 (P =	0.07)					Favours PCI Favours CABG

7.4 Repeat revascularisation

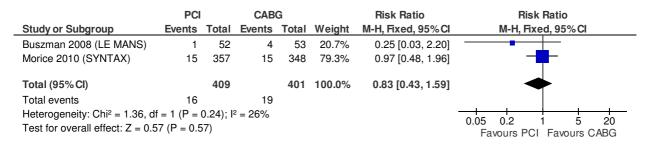
	PCI	CAB	G		Risk Ratio	Risk Ratio
Study or Subgroup	Events To	tal Events	Total	Weight	M-H, Fixed, 95% Cl	M-H, Fixed, 95% CI
Goy 2008 (SIMA)	18	62 3	59	9.2%	5.71 [1.77, 18.38]	
Henderson 1998 (RITA)	111 2	29	222	89.2%	3.65 [2.53, 5.25]	
Hueb 1999 (MASS-I)	27	72 0	70	1.5%	53.49 [3.33, 860.32]	
Total (95% CI)	3	67	351	100.0%	4.60 [3.25, 6.50]	•
Total events	156	32				
Heterogeneity: Chi ² = 4.67	df = 2 (P = 0)	0.10); I ² = 57 ^o	%			0.01 0.1 1 10 100
Test for overall effect: Z =	8.65 (P < 0.0	0001)				Favours PCI Favours CABG

7.5 Free of angina



8 Left main coronary disease - Short term follow-up (1 yr)

8.1 Death



8.2 non fatal MI

	PCI		CAB	G		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% Cl
Buszman 2008 (LE MANS)	1	52	3	53	17.3%	0.34 [0.04, 3.16]	
Morice 2010 (SYNTAX)	15	357	14	348	82.7%	1.04 [0.51, 2.13]	
Total (95% CI)		409		401	100.0%	0.92 [0.47, 1.80]	•
Total events	16		17				
Heterogeneity: $Chi^2 = 0.89$, d Test for overall effect: $Z = 0.2$,	, .	2 = 0%				0.01 0.1 1 10 100 Favours PCI Favours CABG

8.3 Stroke

	PCI		CAB	G		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% Cl	M-H, Fixed, 95% Cl
Buszman 2008 (LE MANS)	0	52	2	53	21.4%	0.20 [0.01, 4.14]	-
Morice 2010 (SYNTAX)	1	357	9	348	78.6%	0.11 [0.01, 0.85]	
Total (95% CI)		409		401	100.0%	0.13 [0.02, 0.70]	
Total events	1		11				
Heterogeneity: Chi ² = 0.12, d	f = 1 (P =	0.73); l ²	$^{2} = 0\%$				0.01 0.1 1 10 100
Test for overall effect: $Z = 2.3$	87 (P = 0.0)	02)					Favours PCI Favours CABG

8.4 Repeat revascularisation

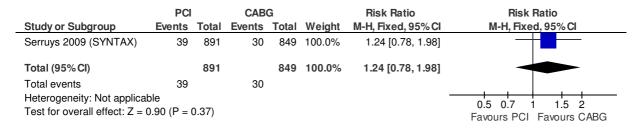
	PCI		CAB	G		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% Cl
Buszman 2008 (LE MANS)	15	52	5	53	17.5%	3.06 [1.20, 7.80]	
Morice 2010 (SYNTAX)	43	357	23	348	82.5%	1.82 [1.12, 2.96]	-
Total (95% CI)		409		401	100.0%	2.04 [1.33, 3.13]	•
Total events	58		28				
Heterogeneity: Chi ² = 0.92, d	f = 1 (P =	0.34); l ²	$^{2} = 0\%$			-	0.2 0.5 1 2 5
Test for overall effect: Z = 3.2	26 (P = 0.0)	001)					Favours PCI Favours CABG

8.5 Cardiac death

	PCI		CAB	G		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% Cl
Morice 2010 (SYNTAX)	14	357	8	348	100.0%	1.71 [0.72, 4.02]	-
Total (95% CI)		357		348	100.0%	1.71 [0.72, 4.02]	•
Total events	14		8				
Heterogeneity: Not applic Test for overall effect: Z =		0.22)					0.01 0.1 1 10 100 Favours PCI Favours CABG

9 Left main coronary artery or 3 vessel disease -Short term follow-up (1yr)

9.1 Death (all causes)



9.2 cardiac mortality

	PCI		CAB	G		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% CI
Serruys 2009 (SYNTAX)	33	891	18	849	100.0%	1.75 [0.99, 3.08]	
Total (95% CI)		891		849	100.0%	1.75 [0.99, 3.08]	
Total events	33		18				
Heterogeneity: Not applica	ble						0.2 0.5 1 2 5
Test for overall effect: Z =	1.93 (P =	0.05)					Favours PCI Favours CABG

9.3 Stroke

	PCI		CAB	G		Risk Ratio	Risk Ratio	
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% Cl	
Serruys 2009 (SYNTAX)	5	891	19	849	100.0%	0.25 [0.09, 0.67]	-	
Total (95% CI)		891		849	100.0%	0.25 [0.09, 0.67]	•	
Total events	5		19					
Heterogeneity: Not applica	ble						0.05 0.2 1 5	20
Test for overall effect: Z =	2.76 (P =	0.006)					Favours PCI Favours CA	

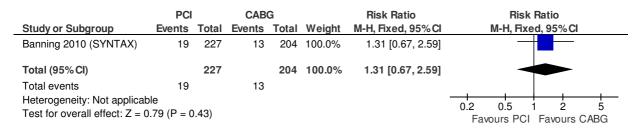
9.4 MI

	PCI		CAB	G		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% Cl
Serruys 2009 (SYNTAX)	43	891	28	849	100.0%	1.46 [0.92, 2.33]	
Total (95% CI)		891		849	100.0%	1.46 [0.92, 2.33]	
Total events Heterogeneity: Not applica Test for overall effect: Z =		0.11)	28			-	0.5 0.7 1 1.5 2 Favours PCI Favours CABG

9.5 Repeat revascularisation

	PCI		CAB	G		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% CI
Serruys 2009 (SYNTAX)	120	891	50	849	100.0%	2.29 [1.67, 3.14]	-
Total (95% CI)		891		849	100.0%	2.29 [1.67, 3.14]	•
Total events	120		50				
Heterogeneity: Not applica Test for overall effect: Z =		0.0000	1)				0.2 0.5 1 2 5 Favours PCI Favours CABG

9.6 Sub group diabetes (Death)



9.7 Sub group diabetes (cardiac death)

	PCI		CAB	G		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% CI
Banning 2010 (SYNTAX)	16	227	8	204	100.0%	1.80 [0.79, 4.11]	+
Total (95% CI)		227		204	100.0%	1.80 [0.79, 4.11]	
Total events	16		8				
Heterogeneity: Not applicable Test for overall effect: $Z = 1$).16)					0.2 0.5 1 2 5 Favours PCI Favours CABG

9.8 Sub group diabetes (stroke)

	PCI		CAB	G		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% CI
Banning 2010 (SYNTAX)	2	227	5	204	100.0%	0.36 [0.07, 1.83]	
Total (95% CI)		227		204	100.0%	0.36 [0.07, 1.83]	
Total events	2		5				
Heterogeneity: Not applicab	ole						0.02 0.1 1 10 50
Test for overall effect: $Z = 1$.23 (P = 0).22)					0.02 0.1 1 10 50 Favours PCI Favours CABG

9.9 Sub group diabetes (MI)

	PCI		CAB	G		Risk Ratio		Risl	Ratio	
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI		M-H, Fix	ed, 95% CI	
Banning 2010 (SYNTAX)	11	227	9	204	100.0%	1.10 [0.46, 2.60]				
Total (95% CI)		227		204	100.0%	1.10 [0.46, 2.60]				
Total events	11		9							
Heterogeneity: Not applicate Test for overall effect: Z = 0		0.83)					0.2 Fa	0.5 vours PC	1 2 I Favours	5 CABG

9.10 Sub group diabetes (Repeat revascularisation)

	PCI		CAB	G		Risk Ratio	Risk F	Ratio	
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed	d, 95% CI	
Banning 2010 (SYNTAX)	46	227	13	204	100.0%	3.18 [1.77, 5.71]			
Total (95% CI)		227		204	100.0%	3.18 [1.77, 5.71]		•	
Total events	46		13						
Heterogeneity: Not applicate Test for overall effect: Z = 3		0.0001)					0.05 0.2 1 Favours PCI	5 Favours CABG	20 3

9.11 Sub group no diabetes (Death)



9.12 Sub group no diabetes (cardiac death)

	PCI		CAB	G		Risk Ratio			Ris	k Rat	io	
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI		M-	H, Fix	ked, 9	5% C	l
Banning 2010 (SYNTAX)	17	664	10	645	100.0%	1.65 [0.76, 3.58]			-			_
Total (95% CI)		664		645	100.0%	1.65 [0.76, 3.58]				4	>	-
Total events	17		10									
Heterogeneity: Not applicable Test for overall effect: $Z = 1$).20)					0	_	0.5 rs PC	1 I Fa	2 vours	5 CABG

9.13 Sub group no diabetes (stroke)

	PCI		CAB	G		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% CI
Banning 2010 (SYNTAX)	3	664	14	645	100.0%	0.21 [0.06, 0.72]	_
Total (95% CI)		664		645	100.0%	0.21 [0.06, 0.72]	
Total events	3		14				
Heterogeneity: Not applicat	ole						0.02 0.1 1 10 50
Test for overall effect: $Z = 2$	2.48 (P = 0)).01)					Favours PCI Favours CABG

9.14 Sub group no diabetes (MI)

	PCI		CAB	G		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% CI
Banning 2010 (SYNTAX)	32	664	19	645	100.0%	1.64 [0.94, 2.86]	
Total (95% CI)		664		645	100.0%	1.64 [0.94, 2.86]	•
Total events Heterogeneity: Not applicable Test for overall effect: Z = 1).08)	19				0.1 0.2 0.5 1 2 5 10 Favours PCI Favours CABG

9.15 Sub group no diabetes (Repeat revasc)

	PCI		CAB	G		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% CI
Banning 2010 (SYNTAX)	74	664	37	645	100.0%	1.94 [1.33, 2.84]	
Total (95% CI)		664		645	100.0%	1.94 [1.33, 2.84]	
Total events	74		37				
Heterogeneity: Not applical Test for overall effect: Z = 3		0.0006)				_	0.5 0.7 1 1.5 2 Favours PCI Favours CABG

10 IPD meta analyses

10.1 Prevalance of angina

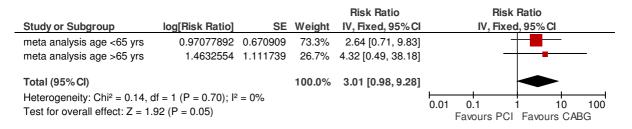


10.2 Stroke (90 days)

	PCI		CAB	G		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% Cl
Hlatky et al 2009 (IPD)	12	2269	26	2268	100.0%	0.46 [0.23, 0.91]	-
Total (95% CI)		2269		2268	100.0%	0.46 [0.23, 0.91]	•
Total events	12		26				
Heterogeneity: Not applie Test for overall effect: Z		= 0.03)					0.01 0.1 1 10 100 Favours PCI Favours CABG

11 Sub group interaction

11.1 Age >65 yrs and age <65 yrs (Death) (Multi vessel short term)



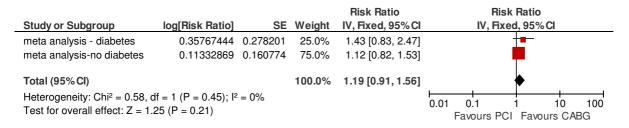
11.2 Age >65 yrs and age <65 yrs (MI) (Multi vessel short term)

				Risk Ratio	Risk Ratio
Study or Subgroup	log[Risk Ratio]	SE	Weight	IV, Fixed, 95% CI	IV, Fixed, 95% CI
meta analysis age <65 yrs	-0.7550226 0.	.425435	41.1%	0.47 [0.20, 1.08]	-
meta analysis age >65 yrs	-0.1863296 0.3	.355197	58.9%	0.83 [0.41, 1.67]	-
Total (95% CI)			100.0%	0.66 [0.39, 1.12]	•
Heterogeneity: $Chi^2 = 1.05$, or Test for overall effect: $Z = 1$.	, , , ,	5%			0.01 0.1 1 10 100 Favours PCI Favours CABG

11.3 Age >65 yrs and age <65 yrs (Repeat revasc) (Multi vessel short term)

				Risk Ratio	Risk Ratio
Study or Subgroup	log[Risk Ratio]	SE	Weight	IV, Fixed, 95% CI	IV, Fixed, 95% CI
meta analysis age <65 yrs	1.22082992 (0.292853	65.0%	3.39 [1.91, 6.02]	
meta analysis age >65 yrs	1.74046617	0.399178	35.0%	5.70 [2.61, 12.46]	
Total (95% CI)			100.0%	4.07 [2.56, 6.46]	•
Heterogeneity: $Chi^2 = 1.10$, or Test for overall effect: $Z = 5.0$, , , ,	9%			0.01 0.1 1 10 100 Favours PCI Favours CABG

11.4 Diabetes and no diabetes (Death) (Multi vessel Long term)



11.5 Diabetes and no diabetes (MI) (Multi vessel long term)

				Risk Ratio	Risk Ratio
Study or Subgroup	log[Risk Ratio]	SE	Weight	IV, Fixed, 95% CI	IV, Fixed, 95% CI
meta analysis - diabetes	0.3852624 0.4	45566	20.7%	1.47 [0.60, 3.59]	
meta analysis-no diabetes	0.24686008 0.23	33117	79.3%	1.28 [0.81, 2.02]	
Total (95% CI)			100.0%	1.32 [0.88, 1.98]	•
Heterogeneity: $Chi^2 = 0.07$, or Test for overall effect: $Z = 1$.	, ,,	/6			0.01 0.1 1 10 100 Favours PCI Favours CABG

11.6 Diabetes and no diabetes (Repeat revasc) (Multi vessel long term)

				Risk Ratio	Risk F	atio
Study or Subgroup	log[Risk Ratio]	SE	Weight	IV, Fixed, 95% CI	IV, Fixed,	95% CI
meta analysis - diabetes	1.41342303 0	.318919	20.8%	4.11 [2.20, 7.68]		
meta analysis-no diabetes	1.178655 0	.163511	79.2%	3.25 [2.36, 4.48]		
Total (95% CI)			100.0%	3.41 [2.57, 4.54]		♦
Heterogeneity: $Chi^2 = 0.43$, or Test for overall effect: $Z = 8$.	, , , ,	0%			0.01 0.1 1 Favours PCI	10 100 Favours CABG

11.7 Single, 2 vessel and 3 vessel (Death) (long term)

			Risk Ratio	Risk Ratio
Study or Subgroup	log[Risk Ratio]	SE Weight	IV, Fixed, 95% CI	IV, Fixed, 95% CI
meta analysis - 2 vessel	0.51879379 0.29604	43 32.7%	1.68 [0.94, 3.00]	 -
meta analysis -3 vessel	0.45742485 0.30269	99 31.3%	1.58 [0.87, 2.86]	 -
meta analysis -single ves	-0.1743534 0.2820	24 36.0%	0.84 [0.48, 1.46]	_
Total (95% CI)		100.0%	1.28 [0.92, 1.79]	•
Heterogeneity: Chi ² = 3.56, Test for overall effect: Z =	, , , , , , , , , , , , , , , , , , , ,			0.01 0.1 1 10 100 Favours PCI Favours CABG

11.8 Diabetes and no diabetes (Death) (LMD or 3 vessel-short term)

			Risk Ratio	Risk Ratio
Study or Subgroup	log[Risk Ratio] SI	Weight	IV, Fixed, 95% CI	IV, Fixed, 95% CI
meta analysis - diabetes	0.27002714 0.344933	3 47.3%	1.31 [0.67, 2.58]	-
meta analysis-no diabetes	0.13102826 0.326769	52.7%	1.14 [0.60, 2.16]	+
Total (95% CI)		100.0%	1.22 [0.76, 1.94]	•
Heterogeneity: $Chi^2 = 0.09$, or Test for overall effect: $Z = 0$.	, , ,			0.01 0.1 1 10 100 Favours PCI Favours CABG

11.9 Diabetes and no diabetes (cardiac Death) (LMD or 3 ves sel -s



11.10 Diabetes and no diabetes (stroke) (LMD or 3 vessel short term)

			Risk Ratio	Risk Ratio
Study or Subgroup	log[Risk Ratio]	SE Weight	IV, Fixed, 95% CI	IV, Fixed, 95% Cl
meta analysis - diabetes	-1.0216512 0.83	32545 36.7%	0.36 [0.07, 1.84]	
meta analysis-no diabetes	-1.5606477 0.63	33905 63.3%	0.21 [0.06, 0.73]	-
Total (95% CI)		100.0%	0.26 [0.10, 0.69]	•
Heterogeneity: $Chi^2 = 0.27$, or Test for overall effect: $Z = 2$.	, , , ,	, 0		0.01 0.1 1 10 100 Favours PCI Favours CABG

11.11 Diabetes and no diabetes (MI) (LMD or 3 vessel short term)



11.12 Diabetes and no diabetes (repeat revasc) (LMD or 3 vessel short term)



Aspirin versus Placebo for stable angina

1 Aspirin vs. Placebo

1.1 Non fatal MI (follow-up 50-60 months)

	Aspir	in	Place	bo		Risk Ratio	Risk	Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixe	d, 95% Cl
Moller 1992 (SAPAT trial)	7	1009	78	1026	81.9%	0.09 [0.04, 0.20]	-	
Ridker 1991	7	178	16	155	18.1%	0.38 [0.16, 0.90]		
Total (95% CI)		1187		1181	100.0%	0.14 [0.08, 0.25]	•	
Total events	14		94					
Heterogeneity: Chi ² = 6.26,	df = 1 (P :	= 0.01);	$I^2 = 84\%$				0.02 0.1 1	10 50
Test for overall effect: Z = 6	.76 (P < 0	.00001)				****	Favours Placebo

1.2 Fatal MI (follow-up 50-60 months)

	Aspir	in	Placebo Risk Ratio		Risk Ratio	Risk Ratio	
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% Cl
Moller 1992 (SAPAT trial)	15	1009	15	1026	75.6%	1.02 [0.50, 2.07]	-
Ridker 1991	0	178	4	155	24.4%	0.10 [0.01, 1.78]	—
Total (95% CI)		1187		1181	100.0%	0.79 [0.41, 1.53]	•
Total events	15		19				
Heterogeneity: Chi ² = 2.47,		0.01 0.1 1 10 100					
Test for overall effect: Z = 0.70 (P = 0.49)							Favours Aspirin Favours Placebo

1.3 Cardiovascular death (follow-up 60.2 months)

	Aspirin Placebo			Risk Ratio	Risk Ratio		
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% Cl
Ridker 1991	6	178	7	155	100.0%	0.75 [0.26, 2.17]	_
Total (95% CI)		178		155	100.0%	0.75 [0.26, 2.17]	
Total events Heterogeneity: Not apples to rest for overall effect:		P = 0.5	7 9)				0.05 0.2 1 5 20 Favours Aspirin Favours Placebo

1.4 Sudden death (follow-up median 50 months)

	Aspirin		Placebo			Risk Ratio	Risk Ratio		
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% CI		
Moller 1992 (SAPAT trial)	19	1009	31	1026	100.0%	0.62 [0.35, 1.10]	-		
Total (95% CI)		1009		1026	100.0%	0.62 [0.35, 1.10]			
Total events	19		31						
Heterogeneity: Not applicable Test for overall effect: $Z = 1$.10)					1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		

1.5 Vascular events (follow-up median 50 months)

	Aspir	in	Place	bo		Risk Ratio	Risk	Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixe	ed, 95% CI
Moller 1992 (SAPAT trial)	108	1009	161	1026	100.0%	0.68 [0.54, 0.86]		
Total (95% CI)		1009		1026	100.0%	0.68 [0.54, 0.86]	•	
Total events	108		161					
Heterogeneity: Not applicable Test for overall effect: $Z = 3$.0010)					0.5 0.7 Favours Aspirin	1 1.5 2 Favours Placebo

Aspirin versus Placebo for stable angina

1.6 Vascular deaths (follow-up median 50 months)

	Aspir	in	Place	bo		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% Cl
Moller 1992 (SAPAT trial)	51	1009	70	1026	100.0%	0.74 [0.52, 1.05]	
Total (95% CI)		1009		1026	100.0%	0.74 [0.52, 1.05]	
Total events	51		70				
Heterogeneity: Not applicab		0.5 0.7 1 1.5 2					
Test for overall effect: $Z = 1$	Favours Aspirin Favours Placebo						

1.7 All cause mortality (follow-up median 50 months)

	Aspir	in	Place	bo		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% CI
Moller 1992 (SAPAT trial)	82	1009	106	1026	100.0%	0.79 [0.60, 1.04]	
Total (95% CI)		1009		1026	100.0%	0.79 [0.60, 1.04]	•
Total events	82		106				
Heterogeneity: Not applicab	le						0.5 0.7 1 1.5 2
Test for overall effect: $Z = 1$.71 (P = 0	.09)					Favours Aspirin Favours Placebo

1.8 Haemorrhagic adverse events (follow-up median 50 months)

	Aspir	in	Place	bo		Risk Ratio	Risk Ratio
Study or Subgroup	Events Total		Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% CI
Moller 1992 (SAPAT trial)	27	1009	16	1026	100.0%	1.72 [0.93, 3.17]	
Total (95% CI)		1009		1026	100.0%	1.72 [0.93, 3.17]	
Total events	27		16				
Heterogeneity: Not applicable Test for overall effect: $Z = 1$.08)					0.2 0.5 1 2 5 Favours Aspirin Favours Placebo

1.9 Non haemorrhagic adverse events (follow-up median 50 months)

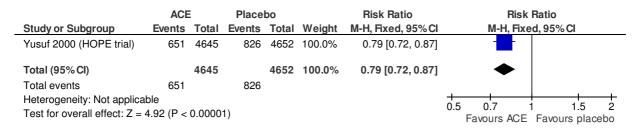
	Aspiri	in	Place	bo		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% CI
Moller 1992 (SAPAT trial)	174	1009	168	1026	100.0%	1.05 [0.87, 1.28]	_
Total (95% CI)		1009		1026	100.0%	1.05 [0.87, 1.28]	•
Total events	174		168				
Heterogeneity: Not applicab	le						0.5 0.7 1 1.5 2
Test for overall effect: $Z = 0$.53 (P = 0	.60)					Favours Aspirin Favours Placebo

1 ACE +background medication vs. Placebo +background medication

1.1 Combined (death from cv causes or non fatal MI)

	ACE		Place	bo		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% CI
Braunwald 2004(PEACE)	344	4158	352	4132	100.0%	0.97 [0.84, 1.12]	-
Total (95% CI)		4158		4132	100.0%	0.97 [0.84, 1.12]	•
Total events	344		352				
Heterogeneity: Not applicab	le						0.5 0.7 1 1.5 2
Test for overall effect: $Z = 0$.40 (P = 0)	.69)					Favours ACE Favours Placebo

1.2 Combined (MI, stroke, or death from CV causes)



1.3 Death from cardio vascular causes

	ACE		Place	bo		Risk Ratio	Risk Ratio
Study or Subgroup	Events Total Events Total Weight M-H, Fix		M-H, Fixed, 95% CI	M-H, Fixed, 95% CI			
Braunwald 2004(PEACE)	146	4158	152	4132	28.1%	0.95 [0.76, 1.19]	_
Pitt 2001 (QUIET)	13	878	14	872	2.6%	0.92 [0.44, 1.95]	
Yusuf 2000 (HOPE trial)	282	4645	377	4652	69.3%	0.75 [0.65, 0.87]	-
Total (95% CI)		9681		9656	100.0%	0.81 [0.72, 0.92]	•
Total events	441		543				
Heterogeneity: Chi ² = 3.26,	- 1 						
Test for overall effect: $Z = 3$		0.5 0.7 1 1.5 2 Favours ACE Favours Placebo					

1.4 Death from non cardiovascular or unknown causes

	ACE	ACE Placebo Risk Ratio		Risk Ratio	Risk Ratio		
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% CI
Braunwald 2004(PEACE)	153	4158	182	4132	47.1%	0.84 [0.68, 1.03]	
Pitt 2001 (QUIET)	14	878	13	872	3.4%	1.07 [0.51, 2.26]	- -
Yusuf 2000 (HOPE trial)	200	4645	192	4652	49.5%	1.04 [0.86, 1.27]	+
Total (95% CI)		9681		9656	100.0%	0.95 [0.82, 1.09]	•
Total events	367		387				
Heterogeneity: Chi ² = 2.42,	0.5 0.7 1 1.5 2						
Test for overall effect: $Z = 0$	Favours ACE Favours Placebo						

1.5 All causes death

	ACE	Ξ	Place	bo		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% CI
Pitt 2001 (QUIET)	27	878	27	872	4.5%	0.99 [0.59, 1.68]	+
Yusuf 2000 (HOPE trial)	482	4645	569	4652	95.5%	0.85 [0.76, 0.95]	
Total (95% CI)		5523		5524	100.0%	0.85 [0.76, 0.96]	•
Total events	509		596				
Heterogeneity: Chi ² = 0.33	, df = 1 (F	r = 0.57); I ² = 0%				0.5 0.7 1 1.5 2
Test for overall effect: Z =	2.75 (P =	0.006)					Favours ACE Favours Placebo

1.6 Death from CHF

	ACE	Ξ	Place	bo		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% Cl
Braunwald 2004(PEACE)	15	4158	25	4132	100.0%	0.60 [0.31, 1.13]	
Total (95% CI)		4158		4132	100.0%	0.60 [0.31, 1.13]	
Total events Heterogeneity: Not applicab Test for overall effect: Z = 1).11)	25				0.1 0.2 0.5 1 2 5 10 Favours ACE Favours Placebo

1.7 Non fatal MI (MI in HOPE trial)

	ACE	Ξ	Place	bo		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% CI
Braunwald 2004(PEACE)	222	4158	220	4132	26.6%	1.00 [0.84, 1.20]	
Pitt 2001 (QUIET)	36	878	40	872	4.8%	0.89 [0.58, 1.39]	
Yusuf 2000 (HOPE trial)	459	4645	570	4652	68.6%	0.81 [0.72, 0.91]	-
Total (95% CI)		9681		9656	100.0%	0.86 [0.78, 0.95]	◆
Total events	717		830				
Heterogeneity: Chi ² = 3.96,	0.5 0.7 1 1.5 2						
Test for overall effect: $Z = 3$	8.03 (P = 0)	.002)					Favours ACE Favours Placebo

1.8 Stroke

	ACE	Ξ	Place	bo		Risk Ratio	Risk	Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixe	ed, 95% CI
Yusuf 2000 (HOPE trial)	156	4645	226	4652	100.0%	0.69 [0.57, 0.84]	-	
Total (95% CI)		4645		4652	100.0%	0.69 [0.57, 0.84]	•	
Total events	156		226					
Heterogeneity: Not applica	able					-	0.5 0.7	1 1.5 2
Test for overall effect: Z =	3.62 (P =	0.0003)					Favours Placebo

1.9 Revascularisation

	ACE		Place	bo		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% CI
Yusuf 2000 (HOPE trial)	742	4645	852	4652	100.0%	0.87 [0.80, 0.95]	-
Total (95% CI)		4645		4652	100.0%	0.87 [0.80, 0.95]	•
Total events	742		852				
Heterogeneity: Not applica Test for overall effect: Z =		0.003)					0.5 0.7 1 1.5 2 Favours ACE Favours Placebo

1.10 Hospitalised with unstable angina

	ACE		Place	bo		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% Cl
Pitt 2001 (QUIET)	52	878	45	872	7.4%	1.15 [0.78, 1.69]	
Yusuf 2000 (HOPE trial)	554	4645	565	4652	92.6%	0.98 [0.88, 1.10]	—
Total (95% CI)		5523		5524	100.0%	0.99 [0.89, 1.11]	•
Total events	606		610				
Heterogeneity: $Chi^2 = 0.57$ Test for overall effect: $Z =$); I ² = 0%				0.5 0.7 1 1.5 2 Favours ACE Favours Placebo

1.11 Hospitalisation due to CHF

	ACE		Placebo			Risk Ratio	Risk Ratio		
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% Cl		
Braunwald 2004(PEACE)	105	4158	134	4132	45.7%	0.78 [0.61, 1.00]			
Yusuf 2000 (HOPE trial)	141	4645	160	4652	54.3%	0.88 [0.71, 1.10]			
Total (95% CI)		8803		8784	100.0%	0.84 [0.71, 0.99]	•		
Total events	246		294						
Heterogeneity: Chi ² = 0.53,	df = 1 (P =	= 0.47);	$I^2 = 0\%$			-	0.5 0.7 1 1.5 2		
Test for overall effect: $Z = 2$.12 (P = 0	.03)					Favours ACE Favours Placebo		

2 ACE+BB vs. BB

2.1 Exercise time (min)

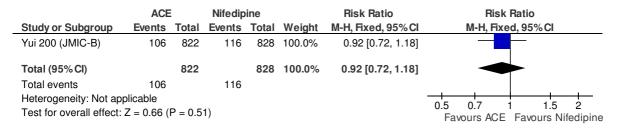
		ACE			ВВ			Mean Difference	Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI	IV, Fixed, 95% Cl
Klein 1990	9.6	2.35	23	9.4	2.35	23	100.0%	0.20 [-1.16, 1.56]	
Total (95% CI)			23			23	100.0%	0.20 [-1.16, 1.56]	
Heterogeneity: Not ap Test for overall effect:	•	(P = 0	0.77)					-	-2 -1 0 1 2 Favours BB Favours ACE+BB

2.2 Time to 1mm ST segment depression (min)

	ACE		BB				Mean Difference	Mean Difference	
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI	IV, Fixed, 95% CI
Klein 1990	8.1	2.82	23	7.9	2.35	23	100.0%	0.20 [-1.30, 1.70]	
Total (95% CI)			23			23	100.0%	0.20 [-1.30, 1.70]	
Heterogeneity: Not ap Test for overall effect:	•	6 (P = 0	0.79)					<u>-</u>	-2 -1 0 1 2 Favours BB Favours ACE+BB

3 ACE +background medication vs. Nifedipine + background medication

3.1 Combined Cardiac events



3.2 sudden death or cardiac death

	ACE		Nifedip	Nifedipine		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% Cl
Yui 200 (JMIC-B)	6	822	6	828	100.0%	1.01 [0.33, 3.11]	
Total (95% CI)		822		828	100.0%	1.01 [0.33, 3.11]	
Total events	6		6				
Heterogeneity: Not app	licable						01 02 05 1 2 5 10
Test for overall effect: 2	Z = 0.01 (1	P = 0.9	9)				0.1 0.2 0.5 1 2 5 10 Favours ACE Favours Nifedipine

3.3 MI

	ACE		Nifedipine		Risk Ratio		Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% CI
Yui 200 (JMIC-B)	13	822	16	828	100.0%	0.82 [0.40, 1.69]	_
Total (95% CI)		822		828	100.0%	0.82 [0.40, 1.69]	
Total events	13		16				
Heterogeneity: Not app	olicable						0.1 0.2 0.5 1 2 5 10
Test for overall effect:	Z = 0.54 (P = 0.5	9)				Favours ACE Favours Nifedipine

3.4 Hospitalisation for angina pectoris

	ACE Nife		Nifedip	Nifedipine		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% Cl
Yui 200 (JMIC-B)	56	822	50	828	100.0%	1.13 [0.78, 1.63]	
Total (95% CI)		822		828	100.0%	1.13 [0.78, 1.63]	
Total events	56		50			_	
Heterogeneity: Not ap Test for overall effect:		P = 0.5	2)				0.5 0.7 1 1.5 2 Favours ACE Favours Nifedipine

3.5 Hospitalisation for HF

	ACE		Nifedipine			Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% Cl
Yui 200 (JMIC-B)	9	822	12	828	100.0%	0.76 [0.32, 1.78]	
Total (95% CI)		822		828	100.0%	0.76 [0.32, 1.78]	
Total events	9		12				
Heterogeneity: Not app Test for overall effect:		P = 0.5	2)				0.2 0.5 1 2 5 Favours ACE Favours Nifedipine

3.6 Non cardiac death



3.7 Total mortality

	ACE		Nifedipine		Risk Ratio		Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% CI
Yui 200 (JMIC-B)	15	822	12	828	100.0%	1.26 [0.59, 2.67]	
Total (95% CI)		822		828	100.0%	1.26 [0.59, 2.67]	
Total events	15		12				
Heterogeneity: Not app	olicable						0.2 0.5 1 2 5
Test for overall effect: Z = 0.60 (P = 0.55)							Favours ACE Favours Nifedipine

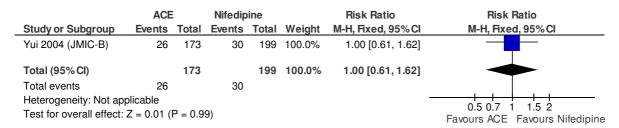
3.8 Adverse events

	ACE		Nifedipine		Risk Ratio		Risk Ratio	
Study or Subgroup	Events Total		Events Total		Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% CI	
Yui 200 (JMIC-B)	121	822	76	828	100.0%	1.60 [1.22, 2.10]	-	
Total (95% CI)		822		828	100.0%	1.60 [1.22, 2.10]	•	
Total events	121		76					
Heterogeneity: Not app	olicable					-	0.5 0.7 1 1.5 2	
Test for overall effect:	Z = 3.43 (Favours ACE Favours Nifedipine					

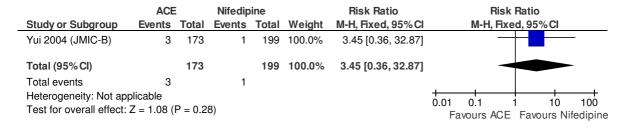
3.9 Withdrawal due to adverse effects

	ACE		Nifedipine			Risk Ratio	Risl	Ratio	
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fix	ed, 95% CI	
Yui 200 (JMIC-B)	72	822	41	828	100.0%	1.77 [1.22, 2.56]			
Total (95% CI)		822		828	100.0%	1.77 [1.22, 2.56]		•	
Total events	72		41						
Heterogeneity: Not app	olicable						0.2 0.5	1 2	
Test for overall effect:	Z = 3.01 (P = 0.0	03)					Favours Nifedi	-

3.10 Diabetes sub group (combined cardiac events)



3.11 Diabetes sub group (cardiac death or sudden death)



3.12 Diabetes sub group (MI)

	ACE		Nifedipine		Risk Ratio		Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% CI
Yui 2004 (JMIC-B)	4	173	4	199	100.0%	1.15 [0.29, 4.53]	
Total (95% CI)		173		199	100.0%	1.15 [0.29, 4.53]	
Total events	4		4				
Heterogeneity: Not app	olicable						0.1 0.2 0.5 1 2 5 10
Test for overall effect: $Z = 0.20$ (P = 0.84)							Favours ACE Favours Nifedipine

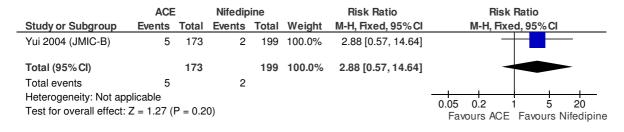
3.13 Diabetes sub group (hospitalisation for angina pectoris)

	ACE		Nifedip	ine		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% Cl
Yui 2004 (JMIC-B)	12	173	16	199	100.0%	0.86 [0.42, 1.77]	_
Total (95% CI)		173		199	100.0%	0.86 [0.42, 1.77]	
Total events	12		16				
Heterogeneity: Not ap Test for overall effect:	•	P = 0.6	9)			•	0.2 0.5 1 2 5 Favours ACE Favours Nifedipine

3.14 Diabetes sub group (Hospitalisation for HF)



3.15 Diabetes sub group (Total mortality)



Statins for stable angina

1 Statins vs. Placebo

1.1 Total exercise time (Sec)

	Statin dy or Subgroup Mean SD				acebo)		Mean Difference	Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI	IV, Fixed, 95% CI
1.1.1 Pravastatin vs.	placebo								
Kayikcioglu 2005 Subtotal (95% CI)	585	165	19 19	507	110	19 19		78.00 [-11.17, 167.17] 78.00 [-11.17, 167.17]	
Heterogeneity: Not app Test for overall effect:		(P =	0.09)						
Total (95% CI) Heterogeneity: Not appress for overall effect: Test for subgroup difference of the control of th	Z = 1.71	•	,	le		19	100.0%	78.00 [-11.17, 167.17]	-200 -100 0 100 200 Favours placebo Favours statin

1.2 Time to 1mm ST depression (Sec)

	Statin Placeb Mean SD Total Mean SD				acebo			Mean Difference	Mean Difference		
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI	IV, Fixed, 95% CI		
1.2.1 Pravastatin vs.	Placebo										
Kayikcioglu 2005 Subtotal (95% CI)	419	162	19 19	256	102	19 19	2.1% 2.1 %	163.00 [76.92, 249.08] 163.00 [76.92, 249.08]	•	-	
Heterogeneity: Not ap	plicable										
Test for overall effect:	Z = 3.71	(P = 0).0002)								
1.2.2 Simvastatin vs.	Placebo)									
Fabian 2004 Subtotal (95% CI)	267	23.4	20 20	319.8	16.2	20 20		-52.80 [-65.27, -40.33] -52.80 [-65.27, -40.33]	—		
Heterogeneity: Not ap	plicable										
Test for overall effect:	Z = 8.30	(P < 0	0.00001)							
Total (95% CI)			39			39	100.0%	-48.36 [-60.71, -36.02]	•		
Heterogeneity: Chi ² = Test for overall effect: Test for subgroup diffe	Z = 7.68	(P < 0	0.00001)			, I ² = 95.8	%	-200 -100 0 100 200 Favours statin Favours pla		

1.3 Hospitalisation for worsening of angina

	Statin		Place	bo		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% Cl
Kayikcioglu 2005	1	19	1	19	100.0%	1.00 [0.07, 14.85]	
Total (95% CI)		19		19	100.0%	1.00 [0.07, 14.85]	
Total events	1		1				
Heterogeneity: Not app Test for overall effect:		P = 1.0	0)				0.001 0.1 1 10 1000 Favours statin Favours placebo

1 Stress management vs. routine care control

1.1 Frequency of angina (average no. of. daily attacks) (8 weeks)

	stress m	stress management				I		Mean Difference	Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI	IV, Fixed, 95% CI
Bundy 1998	7.4	4.7	42	7.4	5.2	16	100.0%	0.00 [-2.92, 2.92]	_
Total (95% CI)			42			16	100.0%	0.00 [-2.92, 2.92]	
Heterogeneity: Not ap Test for overall effect:	•	= 1.00)						Favor	-4 -2 0 2 4

1.2 Average duration of angina per attack (mins) (8 weeks)

	stress m	Co	ntro	I		Mean Difference		Mea	n Differ	ence			
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI		IV, F	xed, 9	5% CI	
Bundy 1998	11	7.4	42	11.4	7.5	16	100.0%	-0.40 [-4.70, 3.90]		_		_	
Total (95% CI)			42			16	100.0%	-0.40 [-4.70, 3.90]		-		-	
Heterogeneity: Not ap Test for overall effect:	•	= 0.86)						Favou	-10 irs stress mai	-5	0 ent Fa	5	10 control

1.3 Frequency of chest pain at rest (days per fortnight) (6 months)

	stress manag			C	ontrol			Mean Difference	Mean Difference				
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI		IV, I	Fixed, 95°	% CI	
Gallacher 1997	1.83	2.92	158	2.42	3.19	179	100.0%	-0.59 [-1.24, 0.06]		_			
Total (95% CI)			158			179	100.0%	-0.59 [-1.24, 0.06]					
Heterogeneity: Not ap	•	P = 0.08)						Favo	-2 urs stres	-1 s managem	0 nent Fav	1 ours cont	2 rol

1.4 Frequency of chest pain on exertion (days per fortnight) (6 months)

	stress mana				ontrol			Mean Difference		Mea	n Differen	ce	
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI		IV, F	ixed, 95%	CI	
Gallacher 1997	3.42	3.71	158	3.96	3.86	179	100.0%	-0.54 [-1.35, 0.27]					
Total (95% CI)			158			179	100.0%	-0.54 [-1.35, 0.27]					
Heterogeneity: Not ap Test for overall effect:	•	P = 0.19)						Favo	-2 urs stre	-1 ss managem	0 ent Favo	1 urs contro	2 ol

2 Stress management + exercise vs. routine care control (8 weeks)

2.1 Frequency of angina (average no. of daily attacks)

	stress m	Control				Mean Difference		Mea	n Differe	ence			
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI		IV, F	ixed, 95	% CI	
Bundy 1998	8	5.7	20	7.4	5.2	16	100.0%	0.60 [-2.97, 4.17]					
Total (95% CI)			20			16	100.0%	0.60 [-2.97, 4.17]					
Heterogeneity: Not ap Test for overall effect:						Favour	-4	-2 anagem	0 ent Fav	2	4		

2.2 Duration of angina (min)

	stress m	Co	ontro	I		Mean Difference		Mea	an Differe	ence			
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI		IV,	Fixed, 95°	% CI	
Bundy 1998	7	6.6	20	11.4	7.5	16	100.0%	-4.40 [-9.08, 0.28]	-				
Total (95% CI)			20			16	100.0%	-4.40 [-9.08, 0.28]	-		-		
Heterogeneity: Not ap	•	0.07\						•	-10	- 5	0	5	10
Test for overall effect: $Z = 1.84$ (P = 0.07)								Favou	rs stress n	nanagen	nent Fav	ours con	trol

3 Stress management + exercise vs. routine care (8 weeks) (change scores)

3.1 Frequency of angina

	Stress manag	jement +e	xerci	routi	ine ca	re		Mean Difference	Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95%	CI IV, Fixed, 95% CI
Bundy 1994	4.3	3	14	7	5.7	15	100.0%	-2.70 [-5.98, 0.5	8]
Total (95% CI)			14			15	100.0%	-2.70 [-5.98, 0.58	8]
Heterogeneity: Not ap Test for overall effect:	'	1)							Favours stress management Favours rc

3.2 Duration of angina

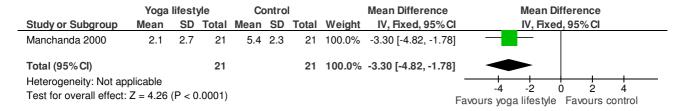
	Stress mana	gement +e	exerci	routine care				Mean Difference		Mea	n Diffei	rence
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% C	CI	IV, F	xed, 9	5% CI
Bundy 1994	1.2	0.5	14	1.9	0.5	15	100.0%	-0.70 [-1.06, -0.34	4]			
Total (95% CI)			14			15	100.0%	-0.70 [-1.06, -0.34	1]			
Heterogeneity: Not ap	I (95% CI) rogeneity: Not applicable									0.5	_	
Test for overall effect:	Z = 3.77 (P = 0.0)	0002)							Favours stress	-0.5 managem	o ent Fa	9.0 avours r

4 Yoga life style intervention programme vs. Control (1 year)

4.1 Mortality

	Yoga life	style	Contr	ol		Risk Ratio		Risk Ratio				
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% C	i	M-H, F	Fixed, 9	5% CI		
Manchanda 2000	0	21	0	21		Not estimable	Э					
Total (95% CI)		21		21		Not estimable	Э					
Total events	0		0									
Heterogeneity: Not ap	•	1.1.					0.01	0.1	1	10	100	
Test for overall effect:	Not applica	abie				I	Favours	yoga lifest	vle Fa	vours con	trol	

4.2 Angina episodes per week



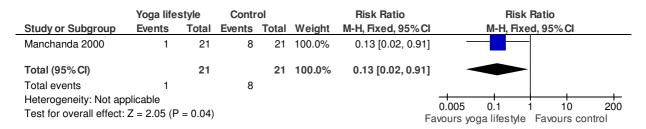
4.3 Exercise duration (sec)

	Yoga	lifest	yle	C	Control Mean Difference		Mean Difference	Mean Difference	
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI	IV, Fixed, 95% CI
Manchanda 2000	413	132	21	374	151	21	100.0%	39.00 [-46.78, 124.78]	-
Total (95% CI)			21			21	100.0%	39.00 [-46.78, 124.78]	•
Heterogeneity: Not ap Test for overall effect:	•	(P = 0	.37)						-200 -100 0 100 200 Favours control Favours yoga

4.4 ST segment depression (mm)

	Yoga	lifest	yle	Co	ontro	l		Mean Difference		Mea	n Differe	nce	
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% C	l	IV, F	ixed, 959	6 CI	
Manchanda 2000	0.18	8.0	21	2.7	0.6	21	100.0%	-2.52 [-2.95, -2.09]] -	-			
Total (95% CI)			21			21	100.0%	-2.52 [-2.95, -2.09]	•	•			
Heterogeneity: Not ap Test for overall effect	•	5 (P <	0.0000	1)					-4 Favours	-2 voga lifes	0 tvle Fav	2 ours contro	4 ol

4.5 Revascularisation

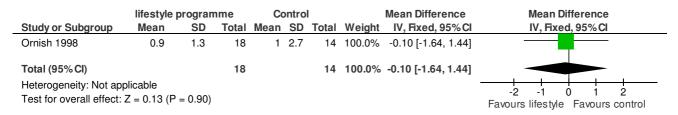


5 Intensive lifestyle programme vs. control (5 years)

5.1 Angina frequency (times per week)

	lifestyle	progran	nme	Co	ontro	I		Mean Difference	Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI	IV, Fixed, 95% CI
Ornish 1998	1.6	2.7	18	0.9	1.9	14	100.0%	0.70 [-0.90, 2.30]	_
Total (95% CI)			18			14	100.0%	0.70 [-0.90, 2.30]	
Heterogeneity: Not ap Test for overall effect:	•	= 0.39)							-4 -2 0 2 4 Favours Lifestyle Favours control

5.2 chest pain duration (min)



5.3 MI

	lifestyle prograi	mme	Contr	ol		Risk Ratio	Ris	k Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fi	xed, 95% Cl
Ornish 1998	2	28	4	20	100.0%	0.36 [0.07, 1.76]		
Total (95% CI)		28		20	100.0%	0.36 [0.07, 1.76]		-
Total events	2		4					
Heterogeneity: Not app Test for overall effect:)					0.01 0.1 Favours Lifestyl	1 10 100 e Favours control

5.4 PTCA

	lifestyle programme			ol		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% Cl	M-H, Fixed, 95% Cl
Ornish 1998	8	28	14	20	100.0%	0.41 [0.21, 0.78]	-
Total (95% CI)		28		20	100.0%	0.41 [0.21, 0.78]	•
Total events	8		14				
Heterogeneity: Not ap	plicable						0.01 0.1 1 10 100
Test for overall effect:	Z = 2.69 (P = 0.0)	007)					Favours Lifetsyle Favours control

5.5 CABG

	lifestyle progra	mme	Contr	ol		Risk Ratio		Risk	Ratio		
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% Cl		M-H, Fixe	ed, 95% C	<u> </u>	
Ornish 1998	2	28	5	20	100.0%	0.29 [0.06, 1.33]	_				
Total (95% CI)		28		20	100.0%	0.29 [0.06, 1.33]	-	~	-		
Total events	2		5								
Heterogeneity: Not ap Test for overall effect:	•	1)).1 s lifetsyle		0 cor	100

5.6 Death

	lifestyle progran			ol		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% Cl	M-H, Fixed, 95% Cl
Ornish 1998	2	28	1	20	100.0%	1.43 [0.14, 14.70]	
Total (95% CI)		28		20	100.0%	1.43 [0.14, 14.70]	
Total events	2		1				
Heterogeneity: Not ap Test for overall effect:	•	5)					0.01 0.1 1 10 100 Favours lifestyle Favours control

6 Nurse led cardiac rehab vs. routine care (6 months)

6.1 Walking performance (Jenkins activity checklist for walking)

	nurse led	cardiac r	ehab	С	ontrol			Mean Difference		Me	an Differer	nce
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI		IV,	Fixed, 95%	6 CI
Jiang 2007	10.63	2.13	83	8.62	2.98	84	100.0%	2.01 [1.23, 2.79]				
Total (95% CI)			83			84	100.0%	2.01 [1.23, 2.79]				•
Heterogeneity: Not ap		0.00004)							- 4	-2	0	2
Test for overall effect:	Z = 5.02 (P <	(0.00001))					Fa	vours n	urse led ca	rdiac Favo	ours control

7 Angina management programme (AMP) vs. control (at the end of 8 week treatment period)

7.1 Mean no. of Episodes of angina per week

		AMP		C	ontrol			Mean Difference	Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI	IV, Fixed, 95% CI
Lewin 1995 (AMP)	4.5	5.7	34	16.6	17.8	31	100.0%	-12.10 [-18.65, -5.55]	-
Total (95% CI)			34			31	100.0%	-12.10 [-18.65, -5.55]	•
Heterogeneity: Not ap Test for overall effect:	•	2 (P =	0.0003	3)				_	-20 -10 0 10 20 Favours AMP Favours control

7.2 Severity of angina (self rated out of 100 with scores being worse)

		AMP		C	ontrol			Mean Difference		Mean	Diffe	rence	
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI		IV, Fix	ced, 9	95% CI	
Lewin 1995 (AMP)	21.2	21.8	34	32.9	24.6	31	100.0%	-11.70 [-23.04, -0.36]		_	H		
Total (95% CI)			34			31	100.0%	-11.70 [-23.04, -0.36]		•	-		
Heterogeneity: Not ap Test for overall effect:	•	2 (P = 0	0.04)						-50	-25 Favours AM	0 1P F	25 avours co	50

7.3 Duration of angina (mins)

		AMP		C	ontrol			Mean Difference	N	lean Diff	erence	
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI	ľ	V, Fixed,	95% CI	
Lewin 1995 (AMP)	16.3	23.8	34	26	39.7	31	100.0%	-9.70 [-25.80, 6.40]	-		_	
Total (95% CI)			34			31	100.0%	-9.70 [-25.80, 6.40]			=	
Heterogeneity: Not ap Test for overall effect:	•	3 (P = 0	0.24)						-50 -2 Favour	-	25 Favours c	50 ontrol

7.4 Disability (Sickness Impact Profile) (100 being completely medically dependent and 0 indicating no measurable impairment)

	-	AMP		C	ontrol			Mean Difference	Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI	IV, Fixed, 95% CI
Lewin 1995 (AMP)	6.8	6.3	34	19.5	12.9	31	100.0%	-12.70 [-17.71, -7.69]	-
Total (95% CI)			34			31	100.0%	-12.70 [-17.71, -7.69]	•
Heterogeneity: Not ap Test for overall effect:	'	' (P <	0.0000	01)					-20 -10 0 10 20 Favours AMP Favours control

8 Angina Plan vs. Education session (6 months) (all of the outcomes below report change scores)

8.1 Anxiety (HAD scale) (scores between 8 and 10 indicate bordeline presence of anxiety)

	Ang	ina Pla	an	Education session				Mean Difference	Mean Difference				
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI	IV, Fixed, 95% CI				
Lewin 2002 (Angina plan)	-1.03	2.61	68	0	3.07	74	5.9%	-1.03 [-1.96, -0.10]	<u> </u>				
Zetta 2009 (Angina Plan)	-0.35	0.92	109	-0.24	0.84	109	94.1%	-0.11 [-0.34, 0.12]	-				
Total (95% CI)			177			183	100.0%	-0.16 [-0.39, 0.06]	•				
Heterogeneity: $Chi^2 = 3.50$, Test for overall effect: $Z = 1$	-2 -1 0 Favours Angina plan Fav	1 ours Educati											

8.2 Depression (HAD scale) (scores between 8 and 10 indicate borderline presence of depression)

	Ang	ina Pla	an	Educat	ion sess	sion		Mean Difference	Mean Difference				
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI	IV, Fixed, 95% CI				
Lewin 2002 (Angina plan)	-0.48	1.89	68	0.41	2.1	74	9.9%	-0.89 [-1.55, -0.23]	 _				
Zetta 2009 (Angina Plan)	-0.07	0.87	109	0.79	0.77	109	90.1%	-0.86 [-1.08, -0.64]	-				
Total (95% CI)			177			183	100.0%	-0.86 [-1.07, -0.66]	•				
Heterogeneity: $Chi^2 = 0.01$, Test for overall effect: $Z = 8$	-1 -0.5 0 0.5 1 Favours Angina plan Favours Educat												

8.3 Angina attacks per week

	Ang	ina Pla	an	Education session				Mean Difference	Mean Difference			
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI	IV, Fixed, 95% Cl			
Lewin 2002 (Angina plan)	-2.98	5.54	68	-0.41	5.97	74	100.0%	-2.57 [-4.46, -0.68]	-			
Total (95% CI)			68			74	100.0%	-2.57 [-4.46, -0.68]				
Heterogeneity: Not applicate Test for overall effect: $Z = 2$					-	-4 -2 0 2 4 Favours Angina plan Favours Educat						

8.4 Mean pain score

	Angina Plan			Educat	tion ses	sion		Mean Difference	Mean Difference			
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI	IV, Fixed, 95% CI			
Lewin 2002 (Angina plan)	-1.69	14.78	68	-3.48	17.35	74	100.0%	1.79 [-3.50, 7.08]		_		
Total (95% CI)			68			74	100.0%	1.79 [-3.50, 7.08]				
Heterogeneity: Not applicable Test for overall effect: Z = 0.66 (P = 0.51)									-10 Favour	-5 s Angina p	0 lan Fav	5 ours Educa

8.5 Mean duration of pain

	Ang	gina Pla	ın	Education session				Mean Difference	Mean Difference			
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI	IV, Fixed, 95% CI			
Lewin 2002 (Angina plan)	-9.21	34.87	68	-6.78	22.98	74	100.0%	-2.43 [-12.23, 7.37]				
Total (95% CI)			68			74	100.0%	-2.43 [-12.23, 7.37]				
Heterogeneity: Not applicable Test for overall effect: $Z = 0$	0.63)							-20 Fav	-10 ours Angina	0 olan Favo	10 ours Educ	

8.6 Physical limitation (Seattle Angina questionnaire) (0 to 100 scale with higher scores indicating better functioning)

	Angina Plan			Educat	tion ses	sion		Mean Difference	Mean Difference			
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI	IV, Fixed, 95% CI			6 CI
Lewin 2002 (Angina plan)	8.42	16.07	68	-1.43	14.24	74	100.0%	9.85 [4.84, 14.86]				
Total (95% CI)			68			74	100.0%	9.85 [4.84, 14.86]				~
Heterogeneity: Not applicab Test for overall effect: Z = 3						-20 Favo	-10 urs Angina į	0 plan Favo	10 ours Educa			

Rehabilitation for stable angina

8.7 Angina stability (Seattle Angina questionnaire)(0 to 100 scale with higher scores indicating better functioning)

	Ang	Angina Plan Ed			Education session Mean Difference					Mean Difference			
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI		IV, F	ixed, 95%	CI	
Lewin 2002 (Angina plan)	8.73	31.48	68	4.17	29.93	74	100.0%	4.56 [-5.56, 14.68]		_			
Total (95% CI)			68			74	100.0%	4.56 [-5.56, 14.68]		-			
Heterogeneity: Not applicate Test for overall effect: $Z = 0$		0.38)							-20 Favo	-10 ours Angina p	0 olan Favo	10 urs Educa	

8.8 Angina frequency (Seattle Angina questionnaire)(0 to 100 scale with higher scores indicating better functioning)

	Angina Plan Education se				tion ses	sion		Mean Difference	Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI	IV, Fixed, 95% CI
Lewin 2002 (Angina plan)	5.71	23.54	68	4.24	24.06	74	51.2%	1.47 [-6.36, 9.30]	-
Zetta 2009 (Angina Plan)	24.54	31.29	109	18.33	29.11	109	48.8%	6.21 [-1.81, 14.23]	-
Total (95% CI)			177			183	100.0%	3.78 [-1.82, 9.39]	
Heterogeneity: Chi ² = 0.69, Test for overall effect: $Z = 1$,); I ² = 0°	%					-20 -10 0 10 Favours Angina plan Favours Educa

8.9 Treatment satisfaction (Seattle Angina questionnaire)(0 to 100 scale with higher scores indicating better functioning)

	Angina Plan			Educa	tion ses	sion		Mean Difference	Mean Difference			
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI	IV, Fixed, 95% CI			
Lewin 2002 (Angina plan)	0.81	16.82	68	2.75	13.52	74	100.0%	-1.94 [-6.99, 3.11]				
Total (95% CI)			68			74	100.0%	-1.94 [-6.99, 3.11]				
Heterogeneity: Not applicate Test for overall effect: Z = 0		0.45)							-10 -5 0 5 Favours Angina plan Favours Educa			

8.10 Disease perception (Seattle Angina questionnaire)(0 to 100 scale with higher scores indicating better functioning)

	Ang	gina Pla				sion		Mean Difference	Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI	IV, Fixed, 95% Cl
Lewin 2002 (Angina plan)	7.8	14.35	68	4.29	16.94	74	63.4%	3.51 [-1.64, 8.66]	-
Zetta 2009 (Angina Plan)	21.16	28.2	109	19.43	22.51	109	36.6%	1.73 [-5.04, 8.50]	
Total (95% CI)			177			183	100.0%	2.86 [-1.24, 6.96]	
Heterogeneity: Chi ² = 0.17, Test for overall effect: $Z = 1$	•); I ² = 0°	%					-10 -5 0 5 10 Favours Angina plan Favours Educat

8.11 Misconceptions/knowledge

	Angina Plan			Educat	ducation session Mean Difference			Mean Difference					
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI		IV, Fixed	d, 95% C	1	
Zetta 2009 (Angina Plan)	-7.51	7.76	109	-2.01	6.39	109	100.0%	-5.50 [-7.39, -3.61]	-	_			
Total (95% CI)			109			109	100.0%	-5.50 [-7.39, -3.61]	<	>			
Heterogeneity: Not applical Test for overall effect: Z = 5		< 0.000	001)						-10 Favours An	-5 gina plan	0 Favour	5 rs educ	10 ation

Rehabilitation for stable angina

8.12 CLASP angina

	Ang	ina Pl	an	Education session Mean Difference				Mean Difference	Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI	IV, Fixed, 95% CI
Zetta 2009 (Angina Plan)	-1.64	2.87	109	-2.44	3.23	109	100.0%	0.80 [-0.01, 1.61]	
Total (95% CI)			109			109	100.0%	0.80 [-0.01, 1.61]	•
Heterogeneity: Not applica Test for overall effect: Z =		= 0.05)							Favours Angina plan Favours education

8.13 Physical function (SF-36) (scores between 0 to 100 with higher scores representing better health status)

	Ang	gina Pla	ın	Educat	tion ses	sion		Mean Difference	Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI	IV, Fixed, 95% CI
Zetta 2009 (Angina Plan)	3.69	21.77	109	0.02	23.22	109	100.0%	3.67 [-2.31, 9.65]	+
Total (95% CI)			109			109	100.0%	3.67 [-2.31, 9.65]	
Heterogeneity: Not applica Test for overall effect: Z =		= 0.23)							-10 -5 0 5 10 Favours Angina plan Favours education

8.14 Energy and and vitality (SF-36)(scores between 0 to 100 with higher scores representing better health status)

	Angina Plan			Education session			Mean Difference			Mean Difference			
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI		IV, F	ixed, 95	%CI	
Zetta 2009 (Angina Plan)	5.82	20.35	109	1.3	21.34	109	100.0%	4.52 [-1.02, 10.06]				_	
Total (95% CI)			109			109	100.0%	4.52 [-1.02, 10.06]					
Heterogeneity: Not applica Test for overall effect: Z =		0.11)							-20 Favour	-10 rs Angina p	0 olan Fav	10 ours edu	20 cation

8.15 Pain (SF-36)(scores between 0 to 100 with higher scores representing better health status)

	Angina Plan			Educa	tion ses	session Mean Difference				Mean Difference			
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI		IV, Fix	ed, 9	5% CI	
Zetta 2009 (Angina Plan)	11.89	27.75	109	0.02	31.15	109	100.0%	11.87 [4.04, 19.70]					—
Total (95% CI)			109			109	100.0%	11.87 [4.04, 19.70]					-
Heterogeneity: Not applica Test for overall effect: Z = 2		= 0.003)							-20 Favours	-10 s Angina pla	0 n Fa	10 avours ed	20 lucation

8.16 GH perception (SF-36)(scores between 0 to 100 with higher scores representing better health status)

	Ang	Angina Plan Education session				Mean Difference Mean Difference					nce		
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI		IV, F	ixed, 95%	% CI	
Zetta 2009 (Angina Plan)	6.37	16.74	109	1.34	20.1	109	100.0%	5.03 [0.12, 9.94]					
Total (95% CI)			109			109	100.0%	5.03 [0.12, 9.94]			4	>	
Heterogeneity: Not applicate Test for overall effect: Z = 2		0.04)							-20 Favours	-10 s Angina p	0 lan Fav	10 ours educ	20 cation

Rehabilitation for stable angina

8.17 Change in health (SF-36)(scores between 0 to 100 with higher scores representing better health status)

	Ang	gina Pla	ın	Educat	tion sess	sion		Mean Difference	Mean Difference				
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI		IV, I	Fixed, 95	%CI	
Zetta 2009 (Angina Plan)	15.24	27.19	109	9.99	31.2	109	100.0%	5.25 [-2.52, 13.02]					
Total (95% CI)			109			109	100.0%	5.25 [-2.52, 13.02]					
Heterogeneity: Not applical Test for overall effect: Z =		0.19)							-20 Favour	-10 s Angina p	0 olan Fav	10 vours edu	20 cation

8.18 SEI QOL- DW QOL score (overall score ranging from 0-100 with higher scores reflecting better quality of life)

Angina Plan				Educat	tion ses	sion		Mean Difference	
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI	IV, Fixed, 95% CI
Zetta 2009 (Angina Plan)	6.53	15.02	109	4.83	16.57	109	100.0%	1.70 [-2.50, 5.90]	
Total (95% CI)			109			109	100.0%	1.70 [-2.50, 5.90]	
Heterogeneity: Not applica Test for overall effect: Z =		0.43)							-4 -2 0 2 4 Favours Angina plan Favours education

1 Exercise (1 year intensive) vs Control

1.1 Max ST depression (mm)

	Exc	ercis	е	Co	ontro	I		Mean Difference		Mea	n Differ	ence	
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI		IV, F	xed, 95	5%CI	
Todd & Ballantyne 1990	1.6	1.2	20	1.4	8.0	20	100.0%	0.20 [-0.43, 0.83]					
Total (95% CI)			20			20	100.0%	0.20 [-0.43, 0.83]				-	
Heterogeneity: Not applicate Test for overall effect: Z =		= 0.5	(4)						-2	-1 Coni	0 trol Ex	1 ercise	2

1.2 Time to 1mm ST depression (sec)

	Ex	ercise	е	C	ontrol			Mean Difference		Mear	n Differe	nce	
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI		IV, Fi	xed, 95°	%CI	
Todd & Ballantyne 1990	881	668	20	715	580	20	100.0%	166.00 [-221.71, 553.71]		-			
Total (95% CI)			20			20	100.0%	166.00 [-221.71, 553.71]		-			
Heterogeneity: Not applic Test for overall effect: Z =		= 0.40	0)						-1000	-500 Cont	0 rol Exe	500 ercise	1000

1.3 Treadmill time (s)

	Ex	ercise	е	C	ontrol			Mean Difference	Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI	IV, Fixed, 95% CI
Todd & Ballantyne 1990	1,272	514	20	1,010	546	20	100.0%	262.00 [-66.64, 590.64]	+
Total (95% CI)			20			20	100.0%	262.00 [-66.64, 590.64]	
Heterogeneity: Not applic Test for overall effect: Z =		= 0.12	2)						-1000 -500 0 500 1000

2 Exercise (and placebo) vs. Placebo

2.1 Maximal working capacity kpm/min

	Exercise (and place	ebo)	Pla	aceb	0		Mean Difference	Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI	IV, Fixed, 95% CI
Malmborg et al. 1974	15	21	8	19	53	8	100.0%	-4.00 [-43.50, 35.50]	
Total (95% CI)			8			8	100.0%	-4.00 [-43.50, 35.50]	
Heterogeneity: Not app Test for overall effect: 2		0.84)							-50 -25 0 25 50 Favours exercise Favours placebo

2.2 Anginal attacks / week

	Exercise (and plac	ebo)	Pla	aceb	0		Mean Difference	Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI	IV, Fixed, 95% CI
Malmborg et al. 1974	24	50	8	49	66	8	100.0%	-25.00 [-82.38, 32.38]	——————————————————————————————————————
Total (95% CI)			8			8	100.0%	-25.00 [-82.38, 32.38]	
Heterogeneity: Not app Test for overall effect: 2		0.39)							-100 -50 0 50 100 Favours exercise Favours placebo

2.3 Nitroglycerin tabl / week

	Exercise (a	and plac	ebo)	Pl	acebo)		Mean Difference	Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI	IV, Fixed, 95% CI
Malmborg et al. 1974	4	54	8	0	135	8	100.0%	4.00 [-96.75, 104.75]	-
Total (95% CI)			8			8	100.0%	4.00 [-96.75, 104.75]	
Heterogeneity: Not app Test for overall effect: 2).94)							-200 -100 0 100 200 Favours placebo Favours exercise

3 Exercise and beta blockers vs. Beta blocker

3.1 Maximal working capacity kpm/min

	Exercise +	beta blo	cker	Beta	block	er		Mean Difference	Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI	IV, Fixed, 95% CI
Malmborg et al. 1974	42	49	6	48	41	7	100.0%	-6.00 [-55.60, 43.60]	
Total (95% CI)			6			7	100.0%	-6.00 [-55.60, 43.60]	
Heterogeneity: Not app Test for overall effect:).81)						Fav	-50 -25 0 25 50 ours Exercise + BB Favours BB

3.2 Anginal attacks / week

	Exercise +	beta blo	cker	Beta	block	er		Mean Difference		Mea	an Differer	nce	
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI		IV,	Fixed, 95%	6 CI	
Malmborg et al. 1974	-44	50	6	-85	21	7	100.0%	41.00 [-1.93, 83.93]					
Total (95% CI)			6			7	100.0%	41.00 [-1.93, 83.93]					-
Heterogeneity: Not app Test for overall effect: 2		0.06)						Fa	-100 avours e	-50 exercise -	0 ⊦BB Favo	50 ours BB	100

3.3 Nitroglycerin tabl / week

	Exercise +	beta blo	cker	Beta	block	er		Mean Difference	Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% (CI IV, Fixed, 95% CI
Malmborg et al. 1974	-15	115	6	-73	32	7	100.0%	58.00 [-37.02, 153.02	2]
Total (95% CI)			6			7	100.0%	58.00 [-37.02, 153.02	2]
Heterogeneity: Not app Test for overall effect: 2		0.23)						I	-200 -100 0 100 20 Favours exercise + BB Favours BB

4 Exercise + low fat diet vs. Control

4.1 Cardiac mortality



4.2 Mortality (all)

	Exercise + low fa	t diet	Contr	ol		Risk Ratio		F	Risk Ratio)	
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI		M-H,	Fixed, 95	%CI	
Schuler et al. 1992	2	56	1	57	100.0%	2.04 [0.19, 21.82]					
Total (95% CI)		56		57	100.0%	2.04 [0.19, 21.82]					
Total events	2		1								
Heterogeneity: Not app							0.01	0.1	1	10	100
Test for overall effect: 2	Z = 0.59 (P = 0.56)					Fav	ours ex	cercise +	diet Favo	ours conti	ol

4.3 Non-fatal MI

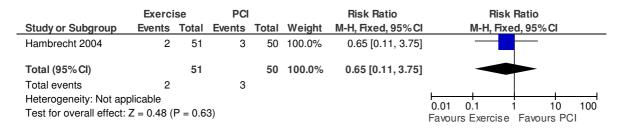
	Exercise + low fa	t diet	Contr	ol		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% CI
Schuler et al. 1992	0	56	2	57	100.0%	0.20 [0.01, 4.15]	
Total (95% CI)		56		57	100.0%	0.20 [0.01, 4.15]	
Total events	0		2				
Heterogeneity: Not appli Test for overall effect: Z						Fa	0.01 0.1 1 10 100 avours exercise + diet Favours control

5 Exercise vs. PCI

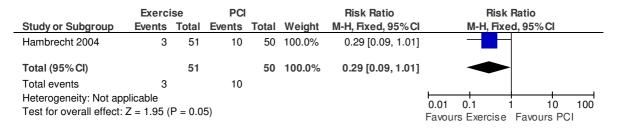
5.1 Death of cardiac causes

	Exerci	ise	PCI			Risk Ratio	Risk I	Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixe	d, 95% CI
Hambrecht 2004	0	51	0	50		Not estimable		
Total (95% CI)		51		50		Not estimable		
Total events	0		0					
Heterogeneity: Not ap	plicable						0.01 0.1 1	10 100
Test for overall effect:	Not applic	able					Favours Exercise	

5.2 Cerebrovascular accident



5.3 Revascularisation



5.4 Hospitalisation and coronary angiography owing to worsening angina

	Exercise		PCI			Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% Cl
Hambrecht 2004	1	51	7	50	100.0%	0.14 [0.02, 1.10]	
Total (95% CI)		51		50	100.0%	0.14 [0.02, 1.10]	
Total events	1		7				
Heterogeneity: Not ap	plicable						0.01 0.1 1 10 100
Test for overall effect:	Z = 1.87 (P = 0.0	6)				0.01 0.1 1 10 100 Favours Exercise Favours PCI

6 Health Education vs Control

6.1 Mortality

Health Educ		ation	Contr	ol		Risk Ratio		Risk Ratio					
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI		M-H, Fixe	d, 95% CI				
Cupples & McKnight, 1994	13	342	29	346	100.0%	0.45 [0.24, 0.86]		-					
Total (95% CI)		342		346	100.0%	0.45 [0.24, 0.86]		•					
Total events	13		29										
Heterogeneity: Not applicable Test for overall effect: $Z = 2.4$						Fav	0.01 ours Healt	0.1 th Education	1 10 Favours control	100			

6.2 Increase in frequency of exercise

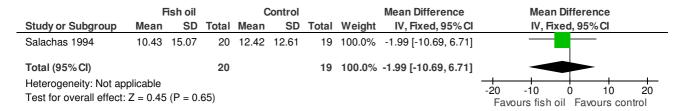


1 Fish oil capsules vs. Placebo (Follow-up at end of treatment period)

1.1 Anginal episodes per week

	F	Fish oil Contro			ontrol			Mean Difference	Mean Difference			
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI	IV, Fixed, 95% CI			
Salachas 1994	8.36	103.6	20	11.36	51.7	19	100.0%	-3.00 [-54.01, 48.01]				
Total (95% CI)			20			19	100.0%	-3.00 [-54.01, 48.01]				
Heterogeneity: Not ap	'	? (P = 0.	91)						-50 -25 0 25 50 Favours fish oil Favours control			

1.2 GTN consumption per week



1.3 Exercise test duration (min)

	Fish oil Control				Mean Difference	Mean Difference			
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI	IV, Fixed, 95% CI
Salachas 1994	10.09	5.16	20	9.1	4.38	19	100.0%	0.99 [-2.01, 3.99]	
Total (95% CI)			20			19	100.0%	0.99 [-2.01, 3.99]	
Heterogeneity: Not ap Test for overall effect:	•		-4 -2 0 2 4						

1.4 Number of anginal attacks per 30 days

	Fi	Fish oil Control						Mean Difference	Mean Difference				
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI		IV, Fi	xed, 95	5% CI	
Aucamp 1993	12.9	13.7	12	22.1	31.1	11	100.0%	-9.20 [-29.15, 10.75]					
Total (95% CI)			12			11	100.0%	-9.20 [-29.15, 10.75]					
Heterogeneity: Not applicable Test for overall effect: Z = 0.90 (P = 0.37)									-50 Favo	-25 ours fish	0 oil Fa	25 vours c	50 ontrol

1.5 Duration of angina attacks per minute

Fish		sh oi	l	Co	ontro	I		Mean Difference	Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI	IV, Fixed, 95% CI
Aucamp 1993	1.8	0.5	12	2.2	8.0	11	100.0%	-0.40 [-0.95, 0.15]	-
Total (95% CI)			12			11	100.0%	-0.40 [-0.95, 0.15]	
Heterogeneity: Not ap Test for overall effect:	•	2 (P =	0.15)						-1 -0.5 0 0.5 1 Favours fish oil Favours control

1.6 Intensity of pain per attack per patient (on a 10 cm visual analogue scale)

	Fish oil		I	Co	ontro	I		Mean Difference	Mean Difference				
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI	IV, Fixed, 95% CI				
Aucamp 1993	2.5	1.2	12	3.5	1.5	11	100.0%	-1.00 [-2.12, 0.12]					
Total (95% CI)			12			11	100.0%	-1.00 [-2.12, 0.12]					
Heterogeneity: Not ap Test for overall effect	•	6 (P =	: 0.08)						-2 -1 0 1 2 Favours fish oil Favours control				

1.7 No. of sublingual isosorbide dinitrate tablets taken per 30 days

	Fi	ish oil		C	ontrol			Mean Difference	Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI	IV, Fixed, 95% CI
Aucamp 1993	17	22.5	12	17	16.8	11	100.0%	0.00 [-16.14, 16.14]	
Total (95% CI)			12			11	100.0%	0.00 [-16.14, 16.14]	
Heterogeneity: Not ap	•) (P = ⁻	1.00)						-50 -25 0 25 50 Favours fish oil Favours control

2 Fish advice (dietary fish advice + fish oil capsule) vs. Fruit advice (Mortality ascertained after 3 to 9 yrs)

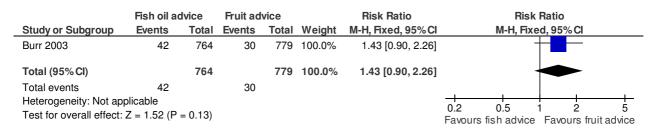
2.1 All death

	Fish oil a	dvice	Fruit ad	vice		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% CI
Burr 2003	141	764	133	779	100.0%	1.08 [0.87, 1.34]	
Total (95% CI)		764		779	100.0%	1.08 [0.87, 1.34]	
Total events	141		133				
Heterogeneity: Not ap Test for overall effect:	•	= 0.48)					0.5 0.7 1 1.5 2
rest for everall effect.	2 - 0.7 1 (1	- 0.40)					Favours fish advice Favours fruit advice

2.2 Cardiac death

Study or Subgroup	Fish oil a	dvice Total	Fruit ad Events		Weight	Risk Ratio M-H, Fixed, 95% CI	Risk Ratio M-H, Fixed, 95% Cl
Burr 2003	94	764	72	779	100.0%	1.33 [1.00, 1.78]	
Total (95% CI)		764		779	100.0%	1.33 [1.00, 1.78]	
Total events	94		72				
Heterogeneity: Not ap Test for overall effect:	•	= 0.05)					0.5 0.7 1 1.5 2 Favours fish advice Favours fruit advice

2.3 Sudden death



3 Fish advice (dietary fish advice+ fish oil capsule) vs. Fish +Fruit advice (Mortality ascertained after 3 to 9 yrs)

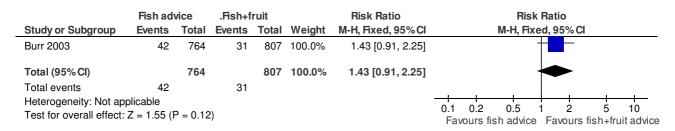
3.1 All death

	Fish ad	vice	.Fish+f	ruit		Risk Ratio			Risk	Ratio		
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI			M-H, Fixe	ed, 95% Cl		
Burr 2003	141	764	142	807	100.0%	1.05 [0.85, 1.30]						
Total (95% CI)		764		807	100.0%	1.05 [0.85, 1.30]			—			
Total events	141		142									
Heterogeneity: Not ap Test for overall effect:	•	P = 0.66	6)				0.5 Favo	0. urs fis	-	1 Favours	1.5 fish+	2 fruit advice

3.2 Cardiac death

	Fish ad	vice	.Fish+fruit		Risk Ratio		Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% Cl
Burr 2003	94	764	86	807	100.0%	1.15 [0.88, 1.52]	
Total (95% CI)		764		807	100.0%	1.15 [0.88, 1.52]	
Total events	94		86				
Heterogeneity: Not ap	plicable						0.5 0.7 1 1.5 2
Test for overall effect:	Z = 1.02 (I	P = 0.31)				0.5 0.7 1 1.5 2 Favours fish advice Favours fish+fruit advice

3.3 Sudden death



4 Fish advice (dietary fish advice + fish oil capsule) vs. Sensible eating (non-specific advice) (Mortality ascertained after 3 to 9 yrs)

4.1 All deaths

	Fish oil advice			eating		Risk Ratio	Risk Ratio			
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixe	ed, 95% CI		
Burr 2003	141	764	109	764	100.0%	1.29 [1.03, 1.63]				
Total (95% CI)		764		764	100.0%	1.29 [1.03, 1.63]		•		
Total events	141		109							
Heterogeneity: Not app Test for overall effect:		= 0.03)					0.5 0.7 Favours fish advice	1 1.5 2 Favours sensible eating		

4.2 Cardiac death



4.3 Sudden death

	Fish oil ac	dvice	Sensible 6	eating		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% CI
Burr 2003	42	764	17	764	100.0%	2.47 [1.42, 4.30]	
Total (95% CI)		764		764	100.0%	2.47 [1.42, 4.30]	•
Total events	42		17				
Heterogeneity: Not app Test for overall effect:		= 0.001)				0.1 0.2 0.5 1 2 5 10 Favours fish advice Favours sensible eating

6 Vitamin E vs. Placebo ((Follow-up at the end of treatment period))

6.1 Improved anginal symptoms

	Vitami	n E	contr	ol		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% CI
Anderson 1974	5	18	5	18	100.0%	1.00 [0.35, 2.87]	_
Total (95% CI)		18		18	100.0%	1.00 [0.35, 2.87]	
Total events	5		5				
Heterogeneity: Not ap	plicable						0.02 0.1 1 10 50
Test for overall effect:	Z = 0.00 (P = 1.0	0)				Favours vitamin E Favours placebo

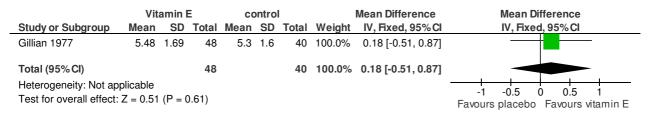
6.2 No change in anginal symptoms

	Vitami	n E	contr	ol		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% Cl
Anderson 1974	13	18	12	18	100.0%	1.08 [0.70, 1.67]	_
Total (95% CI)		18		18	100.0%	1.08 [0.70, 1.67]	-
Total events	13		12				
Heterogeneity: Not app	olicable						0.2 0.5 1 2 5
Test for overall effect:	Z = 0.36 (P = 0.7	2)				Favours placebo Favours vitamin E

6.3 Slightly worse anginal symptoms

	Vitami	n E	contr	ol		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% Cl
Anderson 1974	0	18	1	18	100.0%	0.33 [0.01, 7.68]	
Total (95% CI)		18		18	100.0%	0.33 [0.01, 7.68]	
Total events	0		1				
Heterogeneity: Not app	licable						0.01 0.1 1 10 100
Test for overall effect: 2	Z = 0.69 (P = 0.4	9)				0.01 0.1 1 10 100 Favours vitamin E Favours placebo

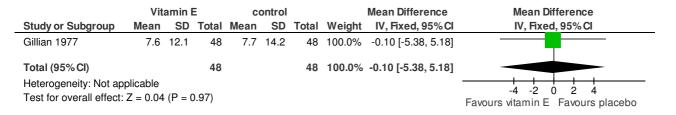
6.4 Duration treadmill (min)



6.5 Angina attacks per week

	Vit	amin l	E	C	ontrol			Mean Difference	Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI	IV, Fixed, 95% CI
Gillian 1977	7.3	12.6	48	6.7	10.5	48	100.0%	0.60 [-4.04, 5.24]	
Total (95% CI)			48			48	100.0%	0.60 [-4.04, 5.24]	
Heterogeneity: Not ap Test for overall effect:	•	5 (P = 0	0.80)						-4 -2 0 2 4 Favours vitamin E Favours placebo

6.6 Nitroglycerin consumption per week



1 TENS vs.control (no TENS) (Follow-up 2 weeks after treatment)

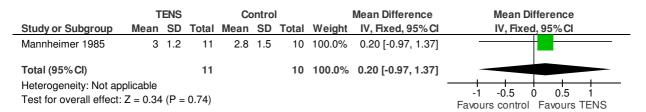
1.1 Exercise tolerance (W.min)

	1	ENS		C	ontro			Mean Difference	Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI	IV, Fixed, 95% CI
Mannheimer 1985	523	231	11	532	139	10	100.0%	-9.00 [-170.42, 152.42]	
Total (95% CI)			11			10	100.0%	-9.00 [-170.42, 152.42]	
Heterogeneity: Not app Test for overall effect:		(P =	0.91)						-200 -100 0 100 200 Favours control Favours TENS

1.2 ST segment depression (mm) during exercise

	Т	ENS		Co	ntro	I		Mean Difference	Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI	IV, Fixed, 95% CI
Mannheimer 1985	2.8	1.3	11	3	1.4	10	100.0%	-0.20 [-1.36, 0.96]	
Total (95% CI)			11			10	100.0%	-0.20 [-1.36, 0.96]	
Heterogeneity: Not ap Test for overall effect:	•	· (P =	0.74)						-2 -1 0 1 2 Favours control Favours TENS

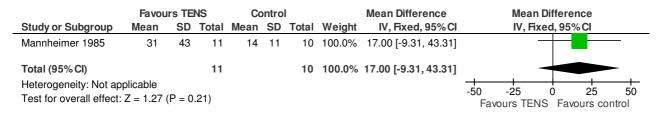
1.3 ST segment depression (mm) after exercise



1.4 Frequency of angina attacks per week

	Т	ENS		Co	ntro	I		Mean Difference	Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI	IV, Fixed, 95% CI
Mannheimer 1985	19	23	11	23	19	10	100.0%	-4.00 [-21.98, 13.98]	
Total (95% CI)			11			10	100.0%	-4.00 [-21.98, 13.98]	
Heterogeneity: Not ap Test for overall effect:		(P =	0.66)						-20 -10 0 10 20 Favours TENS Favours control

1.5 Nitroglycerin consumption per week



2 EECP vs. inactive CP (Follow-up 3 days after treatment for angina pain counts, one week after treatment for exercise duration)

2.1 Exercise duration (sec) (change scores) (follow-up after 1 week)

	- 1	EECP		Inac	ctive C	P		Mean Difference	Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI	IV, Fixed, 95% CI
Arora 2010	42	82.9	57	26	91.3	58	100.0%	16.00 [-15.86, 47.86]	
Total (95% CI)			57			58	100.0%	16.00 [-15.86, 47.86]	
Heterogeneity: Not ap Test for overall effect:	•	B (P = 0	0.33)						-50 -25 0 25 50 Favours control Favours EECP

2.2 Time to >1mm ST segment depression (Sec) (change scores) (follow-up after 1 week)

	1	EECP		Inac	ctive C	P		Mean Difference	Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI	IV, Fixed, 95% CI
Arora 2010	37	82.2	56	-4	89.7	56	100.0%	41.00 [9.13, 72.87]	
Total (95% CI)			56			56	100.0%	41.00 [9.13, 72.87]	
Heterogeneity: Not ap Test for overall effect:	•	2 (P = 0	0.01)						-50 -25 0 25 50 Favours control Favours EECP

2.3 Angina episodes/day (change scores) (follow-up after 3 days)

	ı	EECP		Inac	ctive C	P		Mean Difference	Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI	IV, Fixed, 95% CI
Arora 2010	-0.11	1.76	71	0.13	1.78	66	100.0%	-0.24 [-0.83, 0.35]	
Total (95% CI)			71			66	100.0%	-0.24 [-0.83, 0.35]	
Heterogeneity: Not ap Test for overall effect:	•) (P = 0	0.43)						-1 -0.5 0 0.5 1 Favours EECP Favours control

2.4 NTG use/day (change scores) (follow-up after 3 days)

	E	ECP		Inac	ctive C	P		Mean Difference	Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI	IV, Fixed, 95% CI
Arora 2010	-0.32	1	71	-0.1	0.97	66	100.0%	-0.22 [-0.55, 0.11]	
Total (95% CI)			71			66	100.0%	-0.22 [-0.55, 0.11]	
Heterogeneity: Not ap Test for overall effect:		(P =	0.19)					-	-0.5 -0.25 0 0.25 0.5 Favours EECP Favours control

2.5 Adverse events (no. of patients) (up to the end of treatment)

	EECI	P	Inactive	CP CP		Risk Ratio		Risk Ratio				
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% C	i	M	-H, Fix	ed, 95%	CI	
Arora 2010	39	71	17	66	100.0%	2.13 [1.35, 3.38	[]			-	_	
Total (95% CI)		71		66	100.0%	2.13 [1.35, 3.38]			4	>	
Total events	39		17									
Heterogeneity: Not ap	plicable						0.	2	0.5	1 2	5	
Test for overall effect:	Z = 3.22 (P = 0.0	01)			F	-	_		Favou	rs control	

3 Chronic angina self management Program (CASMP) vs. control (Follow-up 3 months from start of treatment)

3.1 Physical functioning (SF-36) (range 0-100 -higher score better functioning) (change scores)

	CA	ASMF)	Co	ontro	I		Mean Difference	Mean Difference				
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI		IV, F	ixed, 9	5% CI	
McGillion 2008	5.3	9.4	57	-0.68	9.3	60	100.0%	5.98 [2.59, 9.37]					
Total (95% CI)			57			60	100.0%	5.98 [2.59, 9.37]				4	>
Heterogeneity: Not ap Test for overall effect:		6 (P =	0.0005	5)					-10 Fav	-5 ours con	0 trol Fa	5 vours C	10 ASMP

3.2 Role physical functioning (SF-36) (change scores) (range 0-100)

	CASMP			Co	ontro	I		Mean Difference	Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI	IV, Fixed, 95% CI
McGillion 2008	4.8	12.7	57	3.2	9.6	60	100.0%	1.60 [-2.50, 5.70]	-
Total (95% CI)			57			60	100.0%	1.60 [-2.50, 5.70]	
Heterogeneity: Not ap	•	(P = 0	0.44)						-4 -2 0 2 4 Favours control Favours CASMP

3.3 Bodily pain (SF-36) (change scores) (range 0-100)

	CA	ASMF)	Co	ontro	I		Mean Difference	Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI	IV, Fixed, 95% CI
McGillion 2008	4.4	8.7	57	2.1	9.2	60	100.0%	2.30 [-0.94, 5.54]	+-
Total (95% CI)			57			60	100.0%	2.30 [-0.94, 5.54]	
Heterogeneity: Not ap Test for overall effect:	•	(P =	0.16)						-4 -2 0 2 4 Favours control Favours CASMP

3.4 General Health (SF-36) (change scores) (0-100)

	CA	ASMF		Co	ontro	I		Mean Difference	Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI	IV, Fixed, 95% CI
McGillion 2008	2.27	7.7	57	-1.6	6.4	60	100.0%	3.87 [1.30, 6.44]	-
Total (95% CI)			57			60	100.0%	3.87 [1.30, 6.44]	•
Heterogeneity: Not ap Test for overall effect:	•	5 (P =	0.003)						-4 -2 0 2 4 Favours control Favours CASMP

3.5 Angina frequency (SAQ) (range 0-100- higher scores better functioning) (change scores)

	С	ASMP		C	ontrol			Mean Difference	Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI	IV, Fixed, 95% CI
McGillion 2008	11.4	23.7	57	2.2	18.4	60	100.0%	9.20 [1.48, 16.92]	
Total (95% CI)			57			60	100.0%	9.20 [1.48, 16.92]	
Heterogeneity: Not ap Test for overall effect:	'	l (P = 0	0.02)						-20 -10 0 10 20 Favours control Favours CASMP

3.6 Angina stability (SAQ) (range 0-100) (change scores)

	CA	SMF)	C	ontrol			Mean Difference	Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI	IV, Fixed, 95% Cl
McGillion 2008	18	35	57	2.9	24.4	60	100.0%	15.10 [4.11, 26.09]	
Total (95% CI)			57			60	100.0%	15.10 [4.11, 26.09]	
Heterogeneity: Not ap Test for overall effect:	•	(P =	0.007)						-20 -10 0 10 20 Favours control Favours CASMP

3.7 Disease perception (SAQ) (range 0-100) (change scores)

	C	ASMP		C	ontrol			Mean Difference		Mean	Differe	ence	
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI		IV, Fix	xed, 95	% CI	
McGillion 2008	9.9	23.5	57	3.3	19.1	60	100.0%	6.60 [-1.18, 14.38]					
Total (95% CI)			57			60	100.0%	6.60 [-1.18, 14.38]				>	
Heterogeneity: Not ap	•	6 (P = 0	0.10)						-20 Fa	-10 vours conti	0 rol Fav	10 vours C	20 ASMP

3.8 Physical limitation (SAQ) (range 0-100) (change scores)

	C	ASMP		C	ontrol			Mean Difference	Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI	IV, Fixed, 95% CI
McGillion 2008	7.1	16.5	57	1.6	15.1	60	100.0%	5.50 [-0.24, 11.24]	
Total (95% CI)			57			60	100.0%	5.50 [-0.24, 11.24]	
Heterogeneity: Not ap Test for overall effect:	•	B (P = 0	0.06)						-10 -5 0 5 10 Favours control Favours CASMP

3.9 Treatment satisfaction (SAQ) (range 0-100) (change scores)

	С	ASMP		C	ontrol			Mean Difference	Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI	IV, Fixed, 95% CI
McGillion 2008	9.7	24.6	57	4.8	18.7	60	100.0%	4.90 [-3.05, 12.85]	+
Total (95% CI)			57			60	100.0%	4.90 [-3.05, 12.85]	
Heterogeneity: Not ap Test for overall effect:		(P = 0	0.23)						-10 -5 0 5 10 Favours control Favours CASMP

3.10 Self-Efficay Scale (range scores 10- 100 -higher scores better) (change scores)

	C	ASMP		C	ontrol			Mean Difference	Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI	IV, Fixed, 95% CI
McGillion 2008	8.4	17.6	57	-0.2	14.4	60	100.0%	8.60 [2.76, 14.44]	
Total (95% CI)			57			60	100.0%	8.60 [2.76, 14.44]	
Heterogeneity: Not ap Test for overall effect:	•	(P = 0	0.004)						-10 -5 0 5 10 Favours control Favours CASMP

1 beta blocker vs placebo

1.1 ischemic episodes

	beta	block	er	pla	aceb	0		Mean Difference	Mean Di	fference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI	IV, Fixed	d, 95% CI
1.1.1 propanolol vs p	lacebo									
Bugiardini 1989 Subtotal (95% CI)	0.7	0.6	16 16	3.9	1.8	16 16		-3.20 [-4.13, -2.27] -3.20 [-4.13, -2.27]	*	
Heterogeneity: Not ap	plicable									
Test for overall effect:	Z = 6.75	(P < 0	0.00001)						
Total (95% CI)			16			16	100.0%	-3.20 [-4.13, -2.27]	•	
Heterogeneity: Not ap Test for overall effect: Test for subgroup diffe	Z = 6.75	`		,					-4 -2 (Favours BB) 2 4 Favours placebo

1.2 ischemic duration (min)

	beta	block	er	pla	ceb	0		Mean Difference	Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI	IV, Fixed, 95% CI
1.2.1 propanolol vs p	lacebo								
Bugiardini 1989 Subtotal (95% CI)	4	5	16 16	29	18	16 16		-25.00 [-34.15, -15.85] -25.00 [-34.15, -15.85]	
Heterogeneity: Not ap Test for overall effect:	•	(P < 0	0.00001	1)					
Total (95% CI) Heterogeneity: Not ap Test for overall effect: Test for subgroup diffe	Z = 5.35	,		,		16	100.0%	-25.00 [-34.15, -15.85]	-50 -25 0 25 50 Favours BB Favours placebo

2 calcium channel blockers vs placebo

2.1 ischemic episodes

	calcium cha	annel bloo	ckers	pla	ceb	0		Mean Difference	Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI	IV, Fixed, 95% CI
2.1.1 verapamil vs pla	acebo								
Bugiardini 1989 Subtotal (95% CI)	3.4	1.7	16 16	3.9	1.8	16 16	99.3% 99.3 %	-0.50 [-1.71, 0.71] -0.50 [-1.71, 0.71]	—
Heterogeneity: Not ap Test for overall effect:	•).42)							
2.1.2 verapamil or nif	fedipine vs pla	cebo							
Cannon 1985 Subtotal (95% CI)	21	21	22 22	35	27	22 22		-14.00 [-28.29, 0.29] -14.00 [-28.29, 0.29]	
Heterogeneity: Not ap	plicable								
Test for overall effect:	Z = 1.92 (P = 0	0.05)							
Total (95% CI)			38			38	100.0%	-0.60 [-1.81, 0.61]	
Heterogeneity: $Chi^2 = 3.40$, $df = 1 (P = 0.07)$; $I^2 = 71\%$								-	1 1 1 1
Test for overall effect:	Z = 0.97 (P = 0)	0.33)							-20 -10 0 10 20 Favours CCB Favours placeb
Test for subgroup diffe	erences: Chi² =	3.40. df =	1 (P = 0)	.07). I ² =	= 70.6	3%			ravours GOB ravours placer

2.2 ischemia duration (min)

	calcium ch	annel bloc	kers	pla	acebo	1		Mean Difference	Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI	IV, Fixed, 95% CI
2.2.1 verapamil vs pla	acebo								
Bugiardini 1989	27	15	16	29	18	16	1.3%	-2.00 [-13.48, 9.48]	
Subtotal (95% CI)			16			16	1.3%	-2.00 [-13.48, 9.48]	
Heterogeneity: Not app	olicable								
Test for overall effect:	Z = 0.34 (P = 0.000)	0.73)							
2.2.2 verapamil or nife	edipine vs pla	cebo							
Cannon 1985	4.63	2.15	22	3.85	2.27	22	98.7%	0.78 [-0.53, 2.09]	
Subtotal (95% CI)			22			22	98.7%	0.78 [-0.53, 2.09]	▼
Heterogeneity: Not app	olicable								
Test for overall effect:	Z = 1.17 (P = 0	0.24)							
Total (95% CI)			38			38	100.0%	0.74 [-0.55, 2.04]	•
Heterogeneity: Chi ² = 0	0.22, df = 1 (P)	= 0.64); I ²	= 0%						
Test for overall effect: $Z = 1.12$ ($P = 0.26$)									-20 -10 0 10 20 Favours CCB Favours placebo
Test for subgroup diffe	rences: Chi² =	0.22, df =	1 (P = 0	.64), I ² =	0%				ravours COD Favours placed

2.3 Nitroglycerin tablets consumption

ca	lcium cha	nnel bloc	kers	pla	ceb)		Mean Difference	Mean Difference		
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI	IV, Fixed, 95% CI		
2.3.1 verapamil or nifedipi	ne vs plac	ebo									
Cannon 1985 Subtotal (95% CI)	23	27	22 22	41	50		100.0% 100.0%	-18.00 [-41.74, 5.74] -18.00 [-41.74, 5.74]			
Heterogeneity: Not applicate Test for overall effect: $Z = 1$.14)									
Total (95% CI) Heterogeneity: Not applicate Test for overall effect: Z = 1 Test for subgroup difference	.49 (P = 0	,	22			22	100.0%	-18.00 [-41.74, 5.74]	-50 -25 0 25 50 Favours CCB Favours placebo		

2.4 presence of chest pain during exercise

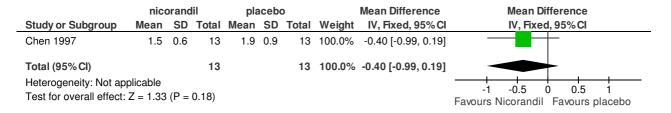
	calcium channel bloc	kers	place	bo		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% CI
2.4.1 verapamil or nit	fedipine vs placebo						
Cannon 1985 Subtotal (95% CI)	9	25 25	16	22 22	100.0% 100.0%	0.49 [0.28, 0.89] 0.49 [0.28, 0.89]	
Total events Heterogeneity: Not ap Test for overall effect:	•		16				
Total (95% CI)		25		22	100.0%	0.49 [0.28, 0.89]	•
Total events Heterogeneity: Not ap Test for overall effect: Test for subgroup diffe	•		16				0.01 0.1 1 10 100 Favours CCB Favours placebo

3 Nicorandil vs placebo

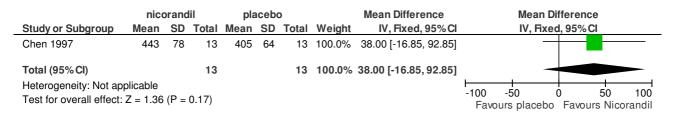
3.3 Time to 1mm ST-segment depression (sec)

	nic	nicorandil placeb						Mean Difference	Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI	IV, Fixed, 95% CI
Chen 1997	342	104	13	273	72	13	100.0%	69.00 [0.24, 137.76]	
Total (95% CI)			13			13	100.0%	69.00 [0.24, 137.76]	
Heterogeneity: Not ap Test for overall effect:	•	' (P =	0.05)						-100 -50 0 50 100 Favours placebo Favours Nicorandil

3.4 maximum ST-segment depression (mm)



3.5 Total exercise duration (sec)



4 beta blockers vs calcium channel blockers in patients with pressure-rate product variation <1050

4.1 exercise duration (sec)

	beta l	blocke	ers	calcium ch	annel bloo	ckers		Mean Difference	Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI	IV, Fixed, 95% CI
4.1.1 acebutolol vs v	erapamil	in pat	ients w	ith pressure	-rate proc	luct varia	ation >10	50	
Romeo 1988 Subtotal (95% CI)	318	101	15 15	362	93	15 15		-44.00 [-113.48, 25.48] -44.00 [-113.48, 25.48]	
Heterogeneity: Not ap Test for overall effect:	•	(P = 0).21)						
Total (95% CI)			15			15	100.0%	-44.00 [-113.48, 25.48]	
Heterogeneity: Not ap	plicable							=	-100 -50 0 50 100
Test for overall effect:	Z = 1.24	(P = 0)	.21)						Favours CCB Favours BB
Test for subgroup diffe	erences: I	Not ap	plicable)					Tavouis GOB Tavouis BB

5 beta blockers vs calcium channel blockers in patients with pressure-rate product variation >1050

5.1 exercise duration (sec)

	beta l	blocke	ers	calcium ch	annel bloc	kers		Mean Difference	Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI	IV, Fixed, 95% CI
5.1.1 acebutolol vs v	erapamil/	in pat	ients w	ith pressure	-rate prod	luct varia	ation <10	50	
Romeo 1988	288	66	15	288	80	15	100.0%	0.00 [-52.48, 52.48]	
Subtotal (95% CI)			15			15	100.0%	0.00 [-52.48, 52.48]	
Heterogeneity: Not ap	oplicable								
Test for overall effect	: Z = 0.00	(P = 1	.00)						
Total (95% CI)			15			15	100.0%	0.00 [-52.48, 52.48]	
Heterogeneity: Not ap	oplicable								100 50 0 50 100
Test for overall effect	: Z = 0.00	(P = 1)	.00)						-100 -50 0 50 100 Favours BB Favours CCB
Test for subgroup diff	ferences: N	Not an	plicable	,					Tavours DD Tavours CCD

6 Beta blockers vs calcium channel blockers

6.1 Number of anginal episodes (per 4 weeks per patient)

	beta b	olocke	ers	calcium cha	nnel bloc	kers		Mean Difference	Mean Difference		
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI	IV, Fixed, 95% CI		
6.1.1 propanolol vs ve	erapamil										
Bugiardini 1989 Subtotal (95% CI)	0.7	0.6	16 16	3.4	1.7	16 16	99.7% 99.7 %	-2.70 [-3.58, -1.82] -2.70 [-3.58, -1.82]	•		
Heterogeneity: Not app	plicable										
Test for overall effect:	Z = 5.99	(P < 0	0.00001))							
6.1.2 atenolol vs amlo	odipine										
Lanza 1999 Subtotal (95% CI)	15	13	10 10	22	22	10 10		-7.00 [-22.84, 8.84] -7.00 [-22.84, 8.84]			
Heterogeneity: Not app	plicable										
Test for overall effect:	Z = 0.87	(P = 0	0.39)								
Total (95% CI)			26			26	100.0%	-2.71 [-3.60, -1.83]	♦		
Heterogeneity: Chi ² = C Test for overall effect: Test for subgroup differ	Z = 6.03	(P < 0	.00001))	, I ² = 0%				-20 -10 0 10 20 Favours BB Favours CCB		

6.2 Chest pain episodes duration (min)

	beta b	olocke	ers	calcium channel blockers				Mean Difference	Mean Difference			
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI		IV, Fixed	d, 95% CI	
6.2.1 propanolol vs v	erapamil											
Bugiardini 1989 Subtotal (95% CI)	4	5	16 16	27	15	16 16		-23.00 [-30.75, -15.25] -23.00 [-30.75, -15.25]		•		
Heterogeneity: Not ap	plicable											
Test for overall effect:	Z = 5.82	(P < 0	.00001))								
6.2.2 atenolol vs ami	lodipine											
Lanza 1999 Subtotal (95% CI)	14	13	10 10	16	17	10 10	25.4% 25.4 %	-2.00 [-15.26, 11.26] -2.00 [-15.26, 11.26]			<u> </u>	
Heterogeneity: Not ap	plicable											
Test for overall effect:	Z = 0.30	(P = 0)	.77)									
Total (95% CI)			26			26	100.0%	-17.66 [-24.35, -10.97]		•		
Heterogeneity: Chi ² =	7.18, df =	1 (P :	= 0.007); I ² = 86%					-	1	 	
Test for overall effect:	Z = 5.17	(P < 0)	.00001)					-50	-25 Favours BB	0 25	-
Test for subgroup diffe	erences: C	Chi² =	7.18. di	f = 1 (P = 0.00)	7). I ² = 86.1	1%				ravours DD	ravours C	CD

6.3 severity of chest pain (scale 1-5)

	beta k	olocke	ers	calcium ch	annel bloc	kers		Mean Difference	Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI	IV, Fixed, 95% Cl
6.3.1 atenolol vs amle	odipine								
Lanza 1999	2.5	1.2	10	2.7	1	10	100.0%	-0.20 [-1.17, 0.77]	
Subtotal (95% CI)			10			10	100.0%	-0.20 [-1.17, 0.77]	
Heterogeneity: Not ap	plicable								
Test for overall effect:	Z = 0.40	(P = 0)	.69)						
Total (95% CI)			10			10	100.0%	-0.20 [-1.17, 0.77]	
Heterogeneity: Not ap	plicable								-2 -1 0 1 2
Test for overall effect:	Z = 0.40	(P = 0)	.69)						Favours CCB Favours BB
Test for subgroup diffe	erences: N	Not ap	plicable)					1 4704.0 005 7 4704.0 55

6.4 quality of life (scale 0-100 mm)

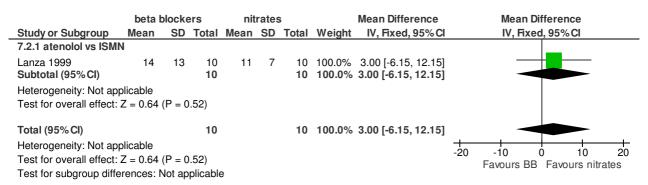
	beta l	olocke	ers	calcium ch	annel bloc	ckers		Mean Difference	Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI	IV, Fixed, 95% CI
6.4.1 atenolol vs am	lodipine								
Lanza 1999 Subtotal (95% CI)	59	29	10 10	51	25	10 10		8.00 [-15.73, 31.73] 8.00 [-15.73, 31.73]	
Heterogeneity: Not ap Test for overall effect:	•	(P = 0).51)						
Total (95% CI)			10			10	100.0%	8.00 [-15.73, 31.73]	
Heterogeneity: Not ap Test for overall effect: Test for subgroup diff	Z = 0.66	`	,)					-50 -25 0 25 50 Favours CCB Favours BB

7 beta blockers vs nitrates

7.1 Number of anginal episodes (per 4 weeks per patient)

	beta b	olocke	ers	nit	rates	S		Mean Difference	Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI	IV, Fixed, 95% CI
7.1.1 atenolol vs ISMI	N								
Lanza 1999	15	13	10	24	22	10	100.0%	-9.00 [-24.84, 6.84]	
Subtotal (95% CI)			10			10	100.0%	-9.00 [-24.84, 6.84]	
Heterogeneity: Not ap	plicable								
Test for overall effect:	Z = 1.11	(P = 0	.27)						
Total (95% CI)			10			10	100.0%	-9.00 [-24.84, 6.84]	
Heterogeneity: Not ap	plicable								-50 -25 0 25 50
Test for overall effect:	Z = 1.11	(P = 0)	.27)						-50 -25 0 25 50 Favours BB Favours nitrates
Test for subgroup diffe	erences: N	Not ap	plicable	Э					ravours de ravours filliales

7.2 Chest pain episodes duration (min)



7.3 severity of chest pain (scale 1-5)

	beta l	olocke	ers	nit	rates	3		Mean Difference	Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI	IV, Fixed, 95% CI
7.3.1 atenolol vs ISMN	1								<u>L</u>
Lanza 1999	2.5	1.2	10	2.3	1.2	10	100.0%	0.20 [-0.85, 1.25]	
Subtotal (95% CI)			10			10	100.0%	0.20 [-0.85, 1.25]	
Heterogeneity: Not app	olicable								
Test for overall effect:	Z = 0.37	(P = 0)	.71)						
Total (95% CI)			10			10	100.0%	0.20 [-0.85, 1.25]	
Heterogeneity: Not app	olicable							_	-2 -1 0 1 2
Test for overall effect:	Z = 0.37	(P = 0)	.71)						Favours BB Favours nitrates
Test for subgroup diffe	rences: I	Not ap	plicable	Э					. avodro BB . avodro milatos

7.4 quality of life (scale 0-100 mm)

	beta b	olocke	ers	nit	rates	3		Mean Difference	Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI	IV, Fixed, 95% CI
7.4.1 atenolol vs ISM	IN								
Lanza 1999	59	29	10	30	27	10	100.0%	29.00 [4.44, 53.56]	
Subtotal (95% CI)			10			10	100.0%	29.00 [4.44, 53.56]	
Heterogeneity: Not ap	plicable								
Test for overall effect	: Z = 2.31	(P = 0	.02)						
Total (95% CI)			10			10	100.0%	29.00 [4.44, 53.56]	
Heterogeneity: Not ap	plicable								-50 -25 0 25 50
Test for overall effect	: Z = 2.31	(P = 0)	.02)						Favours nitrates Favours BB
Test for subgroup diff	erences: N	Not an	plicable	e					Tavours Initiates Tavours BB

8 Calcium channel blockers vs nitrates

8.1 Number of anginal episodes (per 4 weeks per patient)

	calcium cha	annel bloo	ckers	nit	rate	S		Mean Difference	Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI	IV, Fixed, 95% CI
8.1.1 amlodipine vs IS	SMN								
Lanza 1999	22	22	10	24	22			-2.00 [-21.28, 17.28]	
Subtotal (95% CI)			10			10	100.0%	-2.00 [-21.28, 17.28]	
Heterogeneity: Not app	plicable								
Test for overall effect:	Z = 0.20 (P = 0)).84)							
Total (95% CI)			10			10	100.0%	-2.00 [-21.28, 17.28]	
Heterogeneity: Not app	plicable								-20 -10 0 10 20
Test for overall effect:	Z = 0.20 (P = 0.00)).84)							Favours nitrates Favours CCB
Test for subgroup diffe	erences: Not ap	plicable							Tavours Initiates Tavours COD

8.2 Chest pain episodes duration (min)

	calcium cha	annel bloc	ckers	nit	rates	S		Mean Difference	Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI	IV, Fixed, 95% CI
8.2.1 amlodipine vs IS	SMN								
Lanza 1999	16	17	10	11	7	10	100.0%	5.00 [-6.39, 16.39]	-
Subtotal (95% CI)			10			10	100.0%	5.00 [-6.39, 16.39]	
Heterogeneity: Not ap	plicable								
Test for overall effect:	Z = 0.86 (P = 0)	.39)							
Total (95% CI)			10			10	100.0%	5.00 [-6.39, 16.39]	
Heterogeneity: Not ap	plicable							-	
Test for overall effect:	Z = 0.86 (P = 0	.39)							-20 -10 0 10 20 Favours CCB Favours nitrates
Test for subgroup diffe	erences: Not ap	plicable							ravours ood ravours miliales

8.3 severity of chest pain (scale 1-5)

	calcium cha	annel bloc	kers	nit	rates	3		Mean Difference	Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI	IV, Fixed, 95% CI
8.3.1 amlodipine vs ISM	N								
Lanza 1999	2.7	1	10	2.3	1.2	10	100.0%	0.40 [-0.57, 1.37]	-
Subtotal (95% CI)			10			10	100.0%	0.40 [-0.57, 1.37]	
Heterogeneity: Not applic	able								
Test for overall effect: Z =	= 0.81 (P = 0	.42)							
Total (95% CI)			10			10	100.0%	0.40 [-0.57, 1.37]	
Heterogeneity: Not applic	able								-2 -1 0 1 2
Test for overall effect: Z =	= 0.81 (P = 0	.42)							Favours CCB Favours nitrates
Test for subgroup differer	nces: Not ap	plicable							ravours cos ravours mitates

8.4 quality of life (scale 0-100 mm)

	calcium cha	annel bloo	ckers	nit	rates	3		Mean Difference	Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI	IV, Fixed, 95% CI
8.4.1 amlodipine vs l	SMN								
Lanza 1999 Subtotal (95% CI)	51	25	10 10	30	27	10 10		21.00 [-1.81, 43.81] 21.00 [-1.81, 43.81]	
Heterogeneity: Not ap	plicable								
Test for overall effect:	Z = 1.80 (P = 0)	0.07)							
Total (95% CI)			10			10	100.0%	21.00 [-1.81, 43.81]	
Heterogeneity: Not ap Test for overall effect: Test for subgroup diffe	Z = 1.80 (P = 0)	,							-100 -50 0 50 100 Favours CCB Favours nitrates

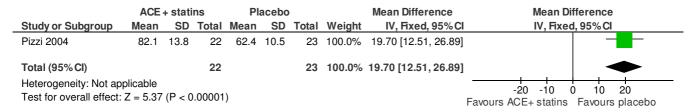
9 Aminophylline vs Nitroglycerine

9.1 Time to 1mm ST depression

	Aminophylline			Nitro	glycer	ine		Mean Difference	Mean Difference				
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI		IV, Fixed	i, 95% CI		
Radice 1996	5.5	1.6	20	3.6	1.7	20	100.0%	1.90 [0.88, 2.92]					
Total (95% CI)			20			20	100.0%	1.90 [0.88, 2.92]					
Heterogeneity: Not ap Test for overall effect:	•	(P = 0	.0003)						-4 Favours n	l -2 troglycerine	0 Favours A	+ 2 minophyl	4 line

10 Angiotensin-Converting Enzyme Inhibitors and statins vs placebo

10.1 Seattle Angina Questionnaire angina frequency score



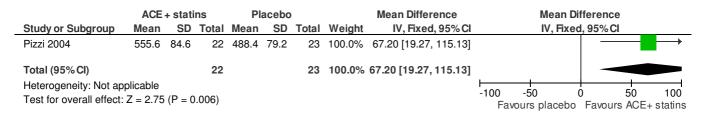
10.2 Seattle Angina Questionnaire Quality of life score

	ACE	+ stati	ns	Pla	aceb	0		Mean Difference	Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI	IV, Fixed, 95% CI
Pizzi 2004	86.5	11.7	22	61.9	9.4	23	100.0%	24.60 [18.38, 30.82]	-
Total (95% CI)			22			23	100.0%	24.60 [18.38, 30.82]	•
Heterogeneity: Not ap Test for overall effect:	•	(P < 0	0.00001)					-20 -10 0 10 20 Favours placebo Favours ACE+ statins

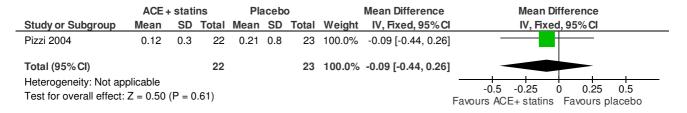
10.3 Seattle Angina Questionnaire summary score

	ACE -	⊦ stati	ns	Pla	aceb	0		Mean Difference	Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI	IV, Fixed, 95% CI
Pizzi 2004	84.2	9.8	22	63.3	8.6	23	100.0%	20.90 [15.50, 26.30]	-
Total (95% CI)			22			23	100.0%	20.90 [15.50, 26.30]	•
Heterogeneity: Not ap Test for overall effect	•	(P < 0	0.00001)				-	-20 -10 0 10 20 Favours placebo Favours ACE+ statins

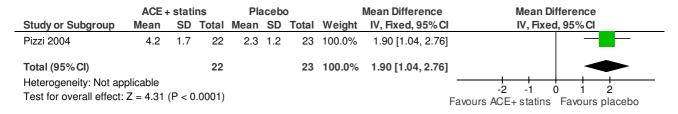
10.4 Peak exercise time (s)



10.5 ST depression (mV)



10.6 Flow-mediated Dilation of brachial artery (%)

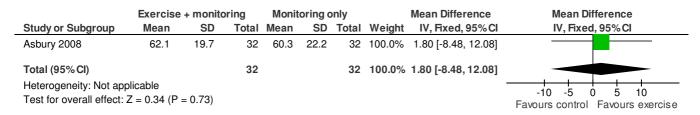


1 Exercise programme + symptom monitoring versus symptoms monitoring only

1.1 HADS total (8 week follow up)

	Exercise	+ monito	oring	Monit	oring o	nly		Mean Difference	Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI	IV, Fixed, 95% CI
Asbury 2008	11.5	5.7	32	10.1	4.6	32	100.0%	1.40 [-1.14, 3.94]	+
Total (95% CI)			32			32	100.0%	1.40 [-1.14, 3.94]	
Heterogeneity: Not ap Test for overall effect:	•	= 0.28)							-4 -2 0 2 4 Favourscontrol Favours exercise

1.2 SF-36 physical functioning (8 week follow up)



1.3 SF-36 pain (8 week follow up)

Exercise + m			oring	Monit	oring o	only		Mean Difference	Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI	IV, Fixed, 95% CI
Asbury 2008	58.7	22.3	32	57.4	20.3	32	100.0%	1.30 [-9.15, 11.75]	
Total (95% CI)			32			32	100.0%	1.30 [-9.15, 11.75]	
Heterogeneity: Not ap Test for overall effect:	•	= 0.81)							-10 -5 0 5 10 Favours control Favours exercis

1.4 SF-36 general health (8 week follow up)

	Exercise	Exercise + monitoring			oring o	only		Mean Difference	Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI	IV, Fixed, 95% CI
Asbury 2008	58.2	16.4	32	54.3	22.9	32	100.0%	3.90 [-5.86, 13.66]	
Total (95% CI)			32			32	100.0%	3.90 [-5.86, 13.66]	
Heterogeneity: Not app Test for overall effect:	= 0.43)							-10 -5 0 5 10 Favours control Favours exercise	

1.5 Shuttle walk test (m) (8 week follow up)

	Exercise + monitoring			Monit	oring	only		Mean Difference	Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI	IV, Fixed, 95% CI
Asbury 2008	426.6	133	32	326.8	111	32	100.0%	99.80 [39.78, 159.82]	
Total (95% CI)			32			32	100.0%	99.80 [39.78, 159.82]	•
Heterogeneity: Not ap Test for overall effect:	•	0.001)							-200 -100 0 100 200 Favours control Favours exercise

1.6 Symptom frequency (8 week follow up)

	Exercise + monitoring			Monit	oring o	only		Mean Difference	Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI	IV, Fixed, 95% CI
Asbury 2008	2	2.1	32	4.6	3.8	32	100.0%	-2.60 [-4.10, -1.10]	
Total (95% CI)			32			32	100.0%	-2.60 [-4.10, -1.10]	•
Heterogeneity: Not ap Test for overall effect:	ı						-4 -2 0 2 4 Favours exercise Favours control		

2 Physical training versus normal activity

2.1 Distance walked (m) (8 week follow up)

	Physic	al trair	ning	Norm	Normal activity			Mean Difference	Mean Difference			
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI		IV,	Fixed, 95% (
Tyni-Lenne 2002	587	49	7	545	46	7	100.0%	42.00 [-7.79, 91.79]				
Total (95% CI)			7			7	100.0%	42.00 [-7.79, 91.79]				
Heterogeneity: Not ap Test for overall effect:	•	(P = 0.1	0)						-100 Favou	-50 irs normal ac	0 ctivity Favou	50 rs physical trai

2.2 Peak heart rate (bpm) (8 week follow up)

	Physic	,			Normal activity Mean Difference					Mean Difference					
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI			IV, Fi	xed,	95% CI		
Tyni-Lenne 2002	102	17	7	106	10	7	100.0%	-4.00 [-18.61, 10.61]		_					
Total (95% CI)			7			7	100.0%	-4.00 [-18.61, 10.61]		-					
Heterogeneity: Not ap Test for overall effect:	•	(P = 0.5	59)							-20	-10	0	10 Favours		20

2.3 Exertion (Borg RPE) (8 week follow up)

	Physic	Physical training Normal activ			vity		Mean Difference	Mean Difference					
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI	IV, Fixed, 95% CI				
Tyni-Lenne 2002	13	3	7	14	2	7	100.0%	-1.00 [-3.67, 1.67]					
Total (95% CI)			7			7	100.0%	-1.00 [-3.67, 1.67]					
Heterogeneity: Not ap Test for overall effect:	•	P = 0.4	16)						-4 -2 0 2 4 Favours physical training Favours normal activity				

2.4 Pain onset (min) after exercise (8 week follow up)

	Physic	Physical training			al acti	vity		Mean Difference			Mea	n Differe	nce	
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI			IV, F	ixed, 95°	% CI	
Eriksson 2000	6	1	7	3	1	10	100.0%	3.00 [2.03, 3.97]					_	
Total (95% CI)			7			10	100.0%	3.00 [2.03, 3.97]					4	>
Heterogeneity: Not ap Test for overall effect:	•	P < 0.0	00001)						Favo	-4 urs no	-2 rmal act	0 ivity Fav	2 ours phys	4 sical trainir

2.5 Max pain (Borg CR-10) (8 week follow up)

	Physica	Physical training Normal activity					Mean Difference	Mean Difference				
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI		IV, Fixed	d, 95% CI	
Eriksson 2000	3	1	7	4	1	10	100.0%	-1.00 [-1.97, -0.03]				
Total (95% CI)			7			10	100.0%	-1.00 [-1.97, -0.03]				
Heterogeneity: Not ap Test for overall effect:	•	P = 0.0	04)						-4 Favours phy	+ -2 sical training	0 2 Favours noi	l 2 rmal activit

3 Physical training versus relaxation

3.1 Distance walked (m) (8 week follow up)

	Physic	al trair	ning	Rela	axatio	on		Mean Difference		Me	an Differer	nce	
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI		IV,	Fixed, 95%	6 CI	
Tyni-Lenne 2002	587	49	7	565	47	7	100.0%	22.00 [-28.30, 72.30]		_			-
Total (95% CI)			7			7	100.0%	22.00 [-28.30, 72.30]		-			-
Heterogeneity: Not ap Test for overall effect:	•	(P = 0.3	39)						-100 Fa	-50 vours relax	0 ation Favo	50 ours physica	100 al trainir

3.2 Peak heart rate (bpm) (8 week follow up)

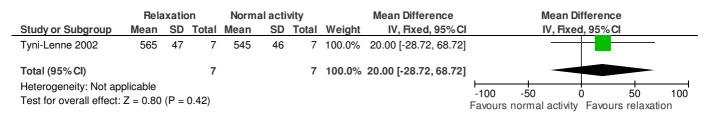
	Physic	al trair	ning	Rela	axatio	on		Mean Difference		Me	an Differer	ice	
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% C	I	IV,	Fixed, 95%	CI	
Tyni-Lenne 2002	102	17	7	113	16	7	100.0%	-11.00 [-28.29, 6.29]				
Total (95% CI)			7			7	100.0%	-11.00 [-28.29, 6.29]				
Heterogeneity: Not ap Test for overall effect:	•	P = 0.2	21)						-50 Favours	-25 ohysical trai	0 ning Favo	25 urs relaxati	50 on

3.3 Exertion (Borg RPE) (8 week follow up)

	Physica	al train	ing	Rela	xatio	n		Mean Difference	Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI	IV, Fixed, 95% Cl
Tyni-Lenne 2002	13	3	7	14	3	7	100.0%	-1.00 [-4.14, 2.14]	
Total (95% CI)			7			7	100.0%	-1.00 [-4.14, 2.14]	
Heterogeneity: Not ap Test for overall effect:	•	P = 0.5	53)					F	-4 -2 0 2 4 avours physical training Favours relaxation

4 Relaxation versus normal activity

4.1 Distance walked (m) (8 week follow up)



4.2 Peak heart rate (bpm) (8 week follow up)

	Rela	axatio	n	Norm	al acti	vity		Mean Difference	Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI	IV, Fixed, 95% CI
Tyni-Lenne 2002	113	16	7	106	10	7	100.0%	7.00 [-6.98, 20.98]	- -
Total (95% CI)			7			7	100.0%	7.00 [-6.98, 20.98]	
Heterogeneity: Not ap Test for overall effect:	•	(P =	0.33)						-20 -10 0 10 20 Favours relaxation Favours normal activity

4.3 Exertion (Borg RPE) (8 week follow up)

	Rela	axatio	on	Norma	al acti	vity		Mean Difference	Mean Difference
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI	IV, Fixed, 95% Cl
Tyni-Lenne 2002	14	3	7	14	2	7	100.0%	0.00 [-2.67, 2.67]	
Total (95% CI)			7			7	100.0%	0.00 [-2.67, 2.67]	
Heterogeneity: Not ap Test for overall effect	•	(P =	1.00)						-4 -2 0 2 4 Favours relaxation Favours normal activity

5 Exercise plus relaxation training versus exercise training

5.4 Pain onset (min) after exercise (8 week follow up)

	Exercise	+ relaxa	ation	Exerc	cise o	nly		Mean Difference		Mea	n Differe	ence	
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI		IV, F	ixed, 95	%CI	
Eriksson 2000	6	3	7	6	1	7	100.0%	0.00 [-2.34, 2.34]			-		
Total (95% CI)			7			7	100.0%	0.00 [-2.34, 2.34]			—		
Heterogeneity: Not ap Test for overall effect:	•	= 1.00)							-4 Favours	-2 exercise	0 only Fav	2 ours exe	4 cise/re

5.5 Max pain (Borg CR-10) (8 week follow up)

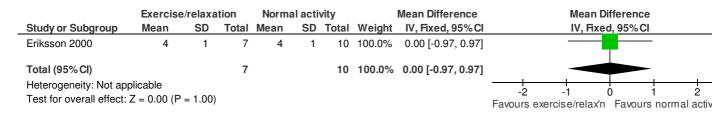
	Exercise	/relaxa	ition	Exerc	ise o	nly		Mean Difference		Mea	n Differ	ence	
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI		IV, F	ixed, 95	%CI	
Eriksson 2000	4	1	7	3	1	7	100.0%	1.00 [-0.05, 2.05]					
Total (95% CI)			7			7	100.0%	1.00 [-0.05, 2.05]					
Heterogeneity: Not ap Test for overall effect:	•	= 0.06)							-2 Favours ex	-1 cercise/rela	0 ax'n Fa	1 vours e	2 xercise only

6 Exercise plus relaxation training versus normal activity

6.4 Pain onset (min) after exercise (8 week follow up)

	Exercise -	+ relaxa	ition	Norma	al acti	vity		Mean Difference		Mean I	Differen	се	
Study or Subgroup	Mean	SD	Total	Mean	SD	Total	Weight	IV, Fixed, 95% CI		IV, Fixe	ed, 95%	CI	
Eriksson 2000	6	3	7	3	1	10	100.0%	3.00 [0.69, 5.31]					
Total (95% CI)			7			10	100.0%	3.00 [0.69, 5.31]			-		
Heterogeneity: Not ap Test for overall effect:		= 0.01)							-4 Favours no	-2 rmal activit	0 y Favoi	1 2 urs e	4 exercise/re

6.5 Max pain (Borg CR-10) (8 week follow up)



Appendix G. Evidence tables: Economic studies

Abbreviations

CABG Coronary artery bypass graft
CCS Canadian cardiovascular society

CI Confidence interval
CVD Cardiovascular disease

EVPI Enhanced external counterpulsation

Expected value of perfect information

HRQoL Health-related quality of life

ICER Incremental cost-effectiveness ratio

ICU Intensive care unit

ITT Intention to treat analysis

Int Intervention
LOS Length of stay

MACCE Major adverse cardiac and cerebrovascular event

M/F Male/female

MI Myocardial infarction

N Total number of patients randomised

NA Not applicable
NR Not reported

PCI Percutaneous coronary intervention

PTCA Percutaneous transluminal coronary angioplasty

QALY Quality-Adjusted Life Years
RCT Randomised controlled trial

SA Sensitivity analysis

SAQ Seattle Angina Questionnaire

SD Standard deviation
SE Standard error

Sig Statistically significant at 5%

Study details	Patients	Interventions	Outcome measures	Effect size	Comments
Abizaid 2001 ¹ USA	Patient group: Patients with diabetes and multi-vessel coronary artery disease from the	Group 1: PCI Stent	Number of patients dead at 1 year	Group 1: 7 (6.3%) Group 2: 3 (3.1%) p value: 0.294	Funding/conflict of interest: NR
Economic analysis: Cost consequences analysis	ARTS trial. All patients N: 208	Group 2: CABG	Number of patients experiencing cerebrovascular events at 1 year	Group 1: 2 (1.8%) Group 2: 6 (6.3%) p value: 0.096	Limitations: Short time-horizon. Cost of further medications
Study design RCT* Duration of follow-up:	Age (mean): NR M/F: 149/59 Unstable angina: 82 Drop outs: 0		Number of patients experiencing myocardial infarction at 1 year	Group 1: 7 (6.3%) Group 2: 3 (3.1%) p value: 0.294	not included (only hospital costs). Costs of resources from one hospital only.
1 year Perspective: Healthcare provider	Group 1 N: 112 Age (mean): 62.4		Number of patients having repeated vascularisation (CABG and PTCA) at 1 year	Group 1: 25 (22.3%) Group 2: 3 (3.1%) p value: <0.001	No sensitivity analysis. Overall quality and applicability
Discount rates: Costs: NA	M/F: 82/30 Unstable angina: 44 Drop outs: 0		Number of event-free patients alive at 1 year	Group 1: 71 (63.4%) Group 2: 81 (84.4%) p value: <0.001	Potentially serious limitations; partial applicability.
Effects: NA	Group 2 N: 96 Age (mean): 62.6		Mean cost per patient 1998 USD, cost of procedure and follow-up	Group 1: \$12,855 (£8,291) Group 2: \$16,585 (£10,052) p value: <0.001	Data sources: Unit costs from Dijkzigt Hospital.
	M/F: 67/29 Unstable angina: 38 Drop outs: 0		Cost-effectiveness** Incremental cost per additional event-free patient	Group 2 vs Group 1: \$8,386 (£5,409)	Notes: * based on a subgroup from the ARTS trial
			Sensitivity analysis	NR	**calculated by NCGC

Study details	Patients	Interventions	Outcome measures	Effect size	Comments
Borghi 2000 ² UK Economic analysis:	Patient group: New, switched and existing stable angina patients.	Group 1: Beta-blocker (Tenormin)	Mean cost per patient without comorbidities over one year a) new patient b) after switching	Group 1: a) £656 b) £871 c) £320 Group 2: a) £1,014 b) £774 c) £336 p value: NR	Funding/conflict of interest: NR Limitations:
Cost analysis	All patients N: 1825	Group 2: Calcium-channel blocker	c) existing patient 1997/98 GBP. Cost of anti-anginal		Based on a cross-sectional study.
Study design Cross-sectional study Duration of follow-up:	N with comorbidities: 640 (35%)	(Tildiem)	drugs, additional medication, GP- initiated tests, GP and practice nurse visits, outpatient visits, elective and		No measure of effectiveness was assessed.
One year	N: 1253 N with comorbidities: 473 (38%)		emergency admissions. Cost-effectiveness	NR	Overall quality and applicability Potentially serious limitations;
UK NHS	(6676)		Sensitivity analysis One-way SA	The costs in patients with comorbidities had the same trend in the year after switching	partial applicability.
Discount rates: Costs: NA Effects: NA	Group 2 N: 572 N with comorbidities: 167 (29%)			and for existing patients. Only for new patients with comorbidities treatment with beta-blocker was associated with higher costs. The overall results do not change when: - frequency of GP visits is varied - incidence of hospitalisation is varied (from 0 to double) - the cost of generic drugs is used.	Data sources: Resource use data obtained from the IMS Health Database, UK Mediplus ® Resource costs obtained from NHS databases and UK cost studies.

Study details	Patients	Interventions	Outcome measures	Effect size	Comments
De Feyter 2002 ³ Netherlands	Patient group: patients with stable angina from the ARTS trial	Group 1: Stented angioplasty	Number of patients dead at 1 year	Group 1: 9 (2.4%) Group 2: 12 (3.2%) p value: Not sig	Funding/conflict of interest: NR
Economic analysis: Cost-effectiveness analysis	All patients** N: 755 Age (mean): NR	Group 2: CABG	Number of patients experiencing cerebrovascular accidents at 1 year	Group 1: 9 (2.1%) Group 2: 5 (1.3%) p value: Not sig	Limitations: No sensitivity analysis was performed. No HRQoL outcomes
Study design RCT*	M/F: 574/181 Drop outs: 0 Group 1		Number of patients experiencing myocardial infarction at 1 year	Group 1: 19 (5.1%) Group 2: 11 (2.9%) p value: Not sig	were considered. Some costs (e.g. GP visits) might have been missed.
Duration of follow-up: 12 months			Number of patients having repeat revascularisation at 1 year	Group 1: 63 (16.8%) Group 2: 13 (3.5%) p value: <0.01	Overall quality and applicability Potentially serious limitations; partial applicability.
Perspective: Healthcare provider	Drop outs: 0 Group 2		Number of angina and medication free patients at 1 year	Group 1: 67 (18%) Group 2: 160 (42%) p value: <0.003	Data sources: Unit cost from the Netherlands.
Discount rates: Costs: NA Effects: NA	N: 374 Mean age (range): 61 (35-83) M/F: 281/93		Number of MACCE-free patients at 1 year	Group 1: 275 (73.5%) Group 2: 340 (89.2%) p value: <0.0001	Notes: *ARTS trial
	Drop outs: 0		Mean cost per patient 1998 USD, cost of procedure, hospitalisation, follow-up, rehospitalisation, medication.	Group 1: \$10,368 (£6,687) Group 2: \$12,960 (£8,359) p value: Not sig	**Only subset of stable angina patients is included in our review.
			Cost-effectiveness Incremental cost per additional MACCE-free patient.	Group 2 vs Group 1: \$16,510 (£10,649)	
			Sensitivity analysis	NR	

Study details	Patients	Interventions	Outcome measures	Effect size	Comments
Eefting 2003 ⁴ The Netherlands	Patient group: Patients with stable or unstable angina and/or documented ischemia.	Group 1: Stenting performed by use of standard	Number of patients dead at 1 year	Group 1: 0 (0.0%) Group 2: 4 (2.8%) p value: NR	Funding/conflict of interest: Netherlands National Health Insurance Council.
Economic analysis: Cost-utility analysis	All patients N: 280	techniques.	Number of patients experiencing myocardial infarction at 1 year	Group 1: 6 (4.4%) Group 2: 7 (4.9%) p value: Not Sig	Limitations: Short follow-up. Lack of blinding.
Study design RCT	Age (mean): NR Stable angina CCS I or II: 60 Stable angina CCS III or IV: 128 M/F: 199/81	Group 2: Off-pump bypass surgery by use of the Octopus tissue	Number of patients with repeated revascularisation at 1 year	Group 1: 21 (15.2%) Group 2: 6 (4.2%) p value: Sig	At baseline patients in Group 1 had more severe angina symptoms. Overall quality and applicability
Duration of follow-up: 1 year	Drop outs: 0 a Group 1	stabilizer.	Number of event-free patients still alive at 1 year	Group 1: 118 (85.5%) Group 2: 130 (91.5%) p value: Not Sig	Potentially serious limitations; partial applicability.
Perspective: NHS	N: 138 Age (mean): 60.3 Stable angina CCS I or II: 22 b		QALYs	Group 1: 0.82 Group 2: 0.79 p value: 0.09	Notes: a 7 in Group 1 and 6 in Group 2 did not undergo the assigned treatment
Discount rates: Costs: NA Effects: NA	Stable angina CCS III or IV: 73 b M/F: 97/41 Drop outs: 0 a Group 2 N: 142 Age (mean): 58.9 Stable angina CCS I or II: 38 b		Mean cost per patient at 1 year 1999 USD c, direct cost of procedure, hospitalisation, follow-up including reoperation, rehabilitation, medications and tests d.	Group 1: \$7,043 (£4,599) Group 2: \$9,518 (£6,215) p value: <0.01	b significantly more patients in Group 1 were in CCS III or IV. c costs were estimated in Dutch florins and converted to US dollars (\$1 = 2.5 DFL). d The main cost drivers were operating room, intensive care, ward, additional investigations and outpatient rehab.
	Stable angina CCS III or IV: 55 b M/F: 102/40 Drop outs: 0 a		Cost-effectiveness Incremental cost per QALY gained	Stenting is dominant	
	-		Sensitivity analysis Bootstrap simulation	Stenting is dominant in 95% of the 500 simulations.	

Study details	Patients	Interventions	Outcome measures	Effect size	Comments			
Griffin 2007 ⁵ UK Economic analysis:	Patient group: Consecutive patients who had coronary angiography between 15 April 1996 and 14 April 1997 at three hospitals of one NHS trust	Group 1: PCI Group 2:	Number of patients who died at 6 years	Group 1: 28 (16%) Group 2: 18 (12%) Group 3: 34 (17%) p value: Adjusted HR sig for Group 2 vs Group 1	Funding/conflict of interest: British Heart Foundation. The authors declared no competing interests.			
Cost-utility analysis Study design	in London and who were suitable for both CABG and PCI. Their suitability to have revascularisation was assessed	Group 3:	Group 3:	CABG Group 3:	Group 3:	years Group 3: Number of patients with angina at a group and a group are group and group are group are group are group are group and group are gr	Group 1: 61/102 (60%) Group 2: 52/89 (58%) Group 3: 82/119 (69%) p value: Adjusted odd ratio not sig	Limitations: Not a randomised study. PCI procedure could have been without stents. EQ-5D data were
Cohort study Duration of follow-up: 6 years	using the RAND appropriateness method. All patients N: 520	Medical management	Number of patients experiencing non-fatal myocardial infarction at 6 years	Group 1: 19 (11%) Group 2: 15 (10%) Group 3: 16 (8%) p value: NR	not collected at baseline and at one year; scores were only predicted at these time points from other variables. Criteria for assessment of the			
Perspective:	Age (mean): 59 M/F: 403/117 Drop outs: NR		Number of patients having further revascularisation at 6 years	Group 1: 47 (27%) Group 2: 9 (6%) Group 3: 83 (42%) p value: NR	suitability for revascularisation could have changed since time of study.			
Discount rates: Costs: 3.5%	Group 1 N: 173 Age (mean): NR M/F:NR		Number of patients admitted for chest pain at 6 years	Group 1: 73 (42%) Group 2: 58 (39%) Group 3: 82 (41%) p value: NR	Overall quality and applicability Potentially serious limitations; partial applicability.			
Effects: 3.5%	Drop outs: NR Group 2 N: 149 Age (mean): NR		Discounted mean QALYs (SD) over 6 years	Group 1: 2.93 (1.65) (n=127) Group 2: 3.13 (1.37) (n=114) Group 3: 2.83 (1.39) (n=164) p value: NR	Data sources: Occurrence of admissions and LOS from the NHS-wide clearing service; data on drugs from			
	M/F: NR Drop outs: NR Group 3 N: 198 Age (mean): NR M/F: NR		Discounted mean cost per patient over 6 years 2004 GBP, cost of intervention, angiography, hospital stay, drugs, admissions for chest pain, GP and outpatient visits, visits to the emergency department.	Group 1: 14,007 (SD 10,453) Group 2: 17,859 (SD 6,940) Group 3: 10,690 (SD 7,888) p value: Sig	hospital case notes, GP and patients' questionnaires; unit costs from published studies and pricing lists for the UK Notes: * based on the adjusted mean			
	Drop outs: NR		Cost-effectiveness incremental cost per QALY gained	Group 1 vs 3: £22,900/QALY* Group 2 vs 1: £15,917/QALY* Group 2 vs 3: £18,603/QALY*	difference of QALYs (0.24 vs Group 1 and 0.39 vs Group 3) and costs (£3,820 vs Group 1 and £7,255 vs group 3).			

Study details	Patients	Interventions	Outcome measures	Effect size	Comments
				For patients deemed appropriate for CABG only, the ICERs become: Group 1 vs 3 £10,560/QALY Group 2 vs 1 £21,533/QALY Group 2 vs 3 £14,675/QALY For patients deemed appropriate for PCI only, CABG is dominated and the ICER of Group 1 vs 3 is £47,450. At a threshold of £20,000/QALY all the strategies have a similar probability of being cost-effective.	

Study details	Patients	Interventions	Outcome measures	Effect size	Comments							
Hambrecht 2004 ⁶ Germany	Patient group: male patients aged 70 years or less with stable CAD and one native coronary artery stenosis of	Group 1: Stent angioplasty	Number of deaths of cardiac causes	Group 1: 0 Group 2: 0 p value: NA	Funding/conflict of interest: Unconditional scientific grant from Aventis, Germany.							
Economic analysis: cost-consequences analysis	at least 75% by visual assessment amenable to PCI; class I to II of angina with documented myocardial	Group 2: Exercise training. During the first two weeks patients exercised in the	During the first two weeks patients exercised in the	Exercise training. During the first two weeks patients exercised in the	Group 2: Exercise training. During the first two weeks patients exercised in the Number of cerebrovascular of the control o	Number of cerebrovascular accidents (%)	Group 1: 3 (6%) Group 2: 2 (3.9%) p value: Not sig	Limitations: A breakdown of costs was				
Study design RCT	ischemia. Patients who had CABG or PCI within the last 12 months were excluded.					weeks patients exercised in the	weeks patients	weeks patients exercised in the	weeks patients exercised in the	Number of revascularisation (%), including CABG, PTCA of target lesion as event and PTCA of other coronary segments as event	Group 1: 10 (20%) Group 2: 3 (5.9%) p value: Not sig	not provided. An overall summary of cost-effectiveness was provided only in the text.
Duration of follow-up:	All patients N: 101 Age (mean):	day for 10 minutes on a bicycle ergometer at 70% of the symptom-	Hospitalisation and coronary angiography	Group 1: 7 (14%) Group 2: 1 (2%) p value: Not sig	Overall quality and applicability							
Perspective: Health care provider	M/F: 101/0 Drop outs: 4 Group 1	limited maximal heart rate. At discharge, patients were asked to	rate. At discharge, patients were asked to	rate. At discharge, patients were asked to	rate. At discharge, patients were asked to	rate. At discharge, patients were asked to	rate. At discharge, patients were asked to	rate. At discharge, patients were asked to	rate. At discharge,	Mean cost per patient (±SE) 2003 USD, cost of interventions including hospital charges, expenses for supervised training sessions, bicycle ergometer,	Group 1: \$6,086 (±370) (£3,846) Group 2: \$3,708 (±156) (£2,344)	Potentially serious limitations; partial applicability.
Discount rates: Costs: NA	N: 50 Age (mean): 60±1	per day and to participate in one 60-	coronary angiographies, and rehospitalisation.	p value: <0.001	Additional outcomes: To gain 1CCS class, the cost							
Effects: NA	M/F: 50/0 Drop outs: 2	minute group training session of aerobic exercise per week.	session of aerobic	session of aerobic	session of aerobic	session of aerobic	session of aerobic	session of aerobic	session of aerobic	Cost-effectiveness	NR	was \$6956 (£4,396) in the angioplasty group and \$3429 (£2,167) in the
	Group 2 N: 51 Age (mean): 62±1 M/F: 50/0 Drop outs: 2		Sensitivity analysis	NR	exercise group.							

Study details	Patients	Interventions	Outcome measures	Effect size	Comments					
Henderson 1998 ⁷ UK	Patient group: Patients with angina, with single- or multi-vessel disease, in whom	Group 1: PTCA without stents. Stents were used in only 14 PTCAs.	Number of patients dead at follow-up	Group 1: 39 (7.6%) Group 2: 45 (9.0%) p value: 0.51	Funding/conflict of interest: UK Department of Health; British Heart					
Economic analysis: Cost consequences analysis	equivalent revascularisation could be achieved by either CABG or PTCA.	Group 2: CABG	Number of patients experiencing non-fatal myocardial infarction	Group 1: 55 (10.8%) Group 2: 37 (7.4%) p value: 0.08	Foundation and the British Cardiac Society.					
Study design RCT*	All patients N: 1011 Age (mean): NR (the majority was	CABG	CADG	CAUC				Number of patients having repeated revascularisation (either PTCA or CABG) at follow-up	Group 1: 226 (44.3%) Group 2: 54 (10.8%) p value: NR	Not an incremental analysis. HRQoL was not assessed.
6.5 years (median) Perspective:	in the range 50-59) M/F: 815/196 Drop outs: 28		Patients with improved or no angina between 1-year and 5-year follow-up visits	Group 1: 312/461 (67.8%) Group 2: 334/446 (74.9%) p value: NR	Overall quality and applicability Potentially serious					
Discount rates: Costs: 6% Effects: NR	Group 1** t rates: N: 510 Age (mean): NR	Group 1** N: 510 Age (mean): NR M/F: NR	Discounted mean cost per patient at 5 years 1997 GBP, cost of initial procedure, subsequent procedures, other inpatient care, medications.	Group 1: £8,842 (SD £7,516) Group 2: £9,268 (SD £5,384) p value: Not sig	limitations; partial applicability. Data sources: Unit costs taken from one London centre and one centre from elsewhere. Notes: * based on the RITA-1 trial ** An intention-to-treat analysis was performed.					
			Cost-effectiveness	NR						
		M/F: NR		Sensitivity analysis One- way SA		When a 3% discount rate was used the costs of PTCA were 96% of the costs of CABG; if no discount rate is used the ratio is 98% (cost difference not statistically significant at any of these rates)				

Study details	Patients	Interventions	Outcome measures	Effect size	Comments
Hlatky 20098 USA Economic analysis: Cost-utility analysis Study design Multi-centre RCT*	Patient group: patients with type 2 diabetes mellitus and stable, angiographically documented coronary disease. All patients N: 2005 Drop outs: 1323**	Group 1: Early revascularisation with a) CABG b) PCI as decided by the physician	Life years***	a) CABG stratum Group 1: 3.56 Group 2: 3.59 p value: NR b) PCI stratum Group 1: 3.58 Group 2: 3.65 p value: NR	Funding/conflict of interest: National Heart, Lung and Blood Institute, GlaxoSmithKline, Lantheus Medical Imaging, Astellas Pharma, Merck & Co, Abbott Laboratories, Pfizer, MediSense Products, Bayer Diagnostics, Becton, Dickinson and Co, J.R. Carlson Labs, Centocor Inc, Eli Lilly, IipoScience, Merck Sante, Novartis,
Duration of follow-up: 4 years Perspective: Healthcare provider Discount rates: Costs: 3% Effects: NR	-	Group 2: Medical therapy	Mean 4 year cost per patient # 2007 USD, hospitalisation, outpatient visits, nursing home/rehab, medications, test and procedure. Hospital costs calculated using a ratio of cost to charges.	a) CABG stratum Group 1: 3.267 Group 2: 3.274 p value: NR b) PCI stratum Group 1: 3.221 Group 2: 3.248 p value: NR a) CABG stratum Group 1: \$124,400 (£69,115) Group 2: \$103,600 (£57,560) p value: NR b) PCI stratum Group 1: \$106,300 (£59,060) Group 2: \$96,400 (£53,560) p value: NR	Novo Nordisk. Limitations: Not clear how utilities were used to calculate results in the study. In the clinical paper the probability of cardiovascular events was lower in the CABG stratum (inconsistent with the QALYs calculation). QALYs were not adjusted by baseline values. Overall quality and applicability Potentially serious limitations; partial applicability. Additional outcomes: A regression analysis showed the
			Cost-effectiveness incremental cost per QALY gained	Medical therapy is dominant.	baseline factors that affected cumulative costs at 2 years (intervention assigned, use of insulin, baseline HbA level, gender, body
			Sensitivity analysis	Medical therapy was not dominant but still cost-effective when: - results were extrapolated to lifetime assuming costs after 4 years are the same in the 2 groups - QALYs were adjusted by baseline values	mass index). None of these factors had a significant interaction with treatment assignment. Notes: *Based on the BARI 2D trial.

Study details	Patients	Interventions	Outcome measures	Effect size	Comments
				years) and after non-fatal stroke (3 years) was assumed When cost differences persist	** At the end of follow-up economic outcomes were available for 34% of the participants. *** PCI stratum results only (n=667 Group1, n=680 Group 2) # 2008 GBP obtained by using the purchasing power parities and GDP deflator indexes (http://eppi.ioe.ac.uk/costconversion/default.aspx)

Study details	Patients	Interventions	Outcome measures	Effect size	Comments
Legrand 2004 ⁹ The Netherlands	Patient group: Patients with multivessel disease**	Group 1: Stent	Number of patients dead at 3 years	Group 1: 22 (3.7%) Group 2: 28 (4.6%) p value: Not Sig	Funding/conflict of interest: NR
Economic analysis: Cost-effectiveness analysis	All patients N: 1205 Age (mean): 61	Group 2: CABG	Number of patients experiencing cardiovascular accident at 3 years	Group 1: 20 (3.3%) Group 2: 20 (3.3%) p value: Not sig	Limitations: Baseline quality of life was not reported. Number of patients and
Study design RCT*	M/F: 922/283 Drop outs: 6***		Number of patients experiencing myocardial infarction at 3 years	Group 1: 44 (7.3%) Group 2: 34 (5.7%) p value: Not sig	percentages reported do not match. Unclear if discounting was
Duration of follow-up: 3 years	N: 600 Age (mean): 61		Number of patients having repeated procedure (either PCI or CABG) at 3 years	Group 1: 175 (29.2%) Group 2: 44 (7.3%) p value: Sig	applied to costs and effects. Overall quality and
Perspective: Healthcare provider	M/F: 462/138 Drop outs: NR		Number of event-free patients still alive at 1 year	Group 1: 395 (65.8%) Group 2: 504 (83.3%) p value: <0.0001	applicability Potentially serious limitations; partial applicability.
Discount rates: Costs: NR Effects: NR	Group 2 N: 605 Age (mean): 61 M/F: 460/145		Summary of EQ-5D score at 3 years (mean \pm SD)	Group 1: 85 ± 17 Group 2: 86 ± 17 p value: 0.74	Additional outcomes: At 3 years patients in Group 2 had significantly less angina
	Drop outs: NR	Mean cost per patient over 3 years 1998 Euro, diagnostic tests, devices and material, procedures, hospital stay, medications, rehabilitation.	Group 1: €14,302 (£10,183) Group 2: €16,100 (£11,463) p value: 0.0001	(12.8% vs 18.4%, P=0.011) and lower rate of use of antianginal medications (65.4% vs 78.4%, P<0.001).	
			Cost-effectiveness Incremental cost for additional event- free patient	Group 2 vs Group 1: €10, 492 (£7,470) 95%Cl €3,722 – €20,772 (£2,650– £14,790)	Notes: * based on the ARTS trial.
		Sensitivity analysis One-way SA	The ICER is less favourable to CAGB when repeated procedure is excluded as an efficacy end point or when a shorter follow-up (1 year) is considered.	** both stable and unstable angina patients ***1 lost to follow-up, 3 withdrew consent, 2 never treated by either modality.	

Study details	Patients	Interventions	Outcome measures	Effect size	Comments
McKenna 2009 ¹⁰ UK	Patient group: patients with angina with an average age of 64	Intervention 1: No treatment	QALY	Int 1: 7.237 Int 2: 7.492 p value: NR	Funding/conflict of interest: HTA programme
Economic analysis: CUA Study design Decision analysis based on the MUST- EECP RCT.	years.	Intervention 2: EECP	Mean cost per patient 2008 GBP, capital cost of EECP machine, equipment replacement costs, consumables, staffing costs, overheads, repeat operations.	Int 1: 0 Int 2: 4,750 p value: NR	Limitations: The analysis was based on limited data (one small RCT). Utilities were obtained from an algorithm converting SF-36 to EQ-5D. Durability of benefits obtained from expert opinion. The model does not consider: the effect of intervention on mortality or MI, the cost of escalating
Time horizon:			Cost-effectiveness Cost per QALY gained	Int 2 vs Int 1: £18,643/QALY	medical treatment over time, costs associated with no intervention. Only 20% of the patients in the EUROPA trial had angina and they could have a different mortality compared to refractory angina
Perspective: UK NHS and Personal Social Services Discount rates: Costs:3.5% Effects: 3.5%			Sensitivity analysis One-way SA:	Ranges of ICER calculated varying the following: Probability of sustaining QoL benefits over time from separate expert opinion: £10,664 - £28,158. Cost of EECP per patient increased/decreased by £1000: £14,353 - £22,932. Results not sensitive to the rate of repeat EECP within two years (varied from 10% to 30%), subgroup analysis of women/men and different ages; discount rates 6% for costs and 1.5% for outcomes.	patients. Overall quality and applicability Potentially serious limitations; direct applicability. Additional outcomes: At a threshold £20k/QALY individual patient EVPI is £971 and population EVPI is £107,556,668. Data sources: Based on the MUST-EECP (Arora 1999 and 2002). QoL improvement calculated as EQ-5D scores using an algorithm to convert the SF-36 scores into EQ-5D. QoL after one year was estimated with expert elicitation techniques (frequency chart).
			Worst-case/best-case scenario	When QoL benefits from EECP are only sustained in the first year, the ICER $= £63,000$. When QoL benefits are sustained over a lifetime, the ICER $= £5,830$	Mortality data from CVD causes obtained from the EUROPA trial. General mortality based on standard UK rates adjusted to exclude CVD deaths. Cost data from personal communication and price list of supplier.
			Monte Carlo simulation	Probability of being cost-effective at £20k/QALY threshold: 44.4% EECP.	

Study details	Patients	Interventions	Outcome measures	Effect size	Comments
O'Neill 1996 ¹¹ UK Economic analysis: cost-consequences	Patient group: patients in the Belfast area aged less than 75 years and known to have angina for at least 6 months	Group 1: Three visits per year from a health visitor whose brief was discuss ways of living more easily with their disease and	Number of deaths Mean cost per patient	Group 1: 13 (3.8%) Group 2: 29 (8.4%) p value: Not sig Group 1: £1,851	Funding/conflict of interest: Medical Research Council. Limitations:
analysis	All patients N: 688	in which risks of further events might be reduced.	1996 GBP, Cost of intervention (staff time and travel related	Group 2: £1,812 p value: Not sig	Unclear whether the costs are per patient over two
Study design RCT ¹² , ¹³	Drop outs: 29 Group 1 N: 342	Group 2: control	costs), drugs, GP visits, hospital visits (inpatient and outpatient), tests and other treatments Community		years. Old study, medical treatment might have not been optimal at that time.
Duration of follow-up: 2 years	Age (mean): 62.7 (SD 7.1) M/F: 203/139		care costs were excluded. Cost-effectiveness	NR	Unclear what intervention the control group received.
Perspective:	Drop outs: 12 Group 2		Cost-circulveness		Not all the important outcomes were evaluated (e.g. angina symptoms, MI).
	N : 346		Sensitivity analysis	NR	
Discount rates: Costs: NR	Age (mean): 63.6 (SD 6.8) M/F: 205/141				Overall quality and applicability
Effects: NR	Drop outs: 17				Potentially serious limitations; partial applicability.

Study details	Patients	Interventions	Outcome measures	Effect size	Comments			
Sculpher 1994 ¹⁴ UK	Patient group: patients with arteriographically proven coronary artery disease requiring	Group 1: Percutaneous transluminal coronary	Number of patients dead at 2 years	Group 1: 13 (2.5%) Group 2: 9 (1.8%) p value: Not sig	Funding/conflict of interest: British Heart Foundation, British Cardiac Society, and Department of			
Economic analysis: cost consequences analysis	revascularisation. Patients with previous PTCA or CABG were excluded.	angioplasty (PTCA)	Number of patients experiencing non-fatal myocardial infarction at 2 years	Group 1: 32 (6.3%) Group 2: 25 (4.9%) p value: Not sig	Health; ACS UK (Basingstoke, Nats), Medtronic Ltd (Watford, Herts), Schneider (Staines, Middx).			
Study design RCT ^a	All patients N: 1011	Group 2: Coronary artery bypass grafting	Coronary artery bypass grafting	Coronary artery bypass grafting	Coronary artery	Number of patients with no angina at 1 year	Group 1: 343 (69.1%) Group 2: 398 (82.9%) p value: <0.0001	Limitations: Not an incremental analysis. HRQoL was not assessed.
Duration of follow-up: 2 years	N: 510 b, c	,	Number of patients with no angina at 2 years	Group 1: 328 (64.3%) Group 2: 373 (79.1%) p value: 0.0023	Overall quality and applicability Potentially serious limitations; partial			
Perspective: Discount rates: Costs: 6% Effects: NA	Group 2 N: 501 b, c		c	Mean cost per patient over 2 years d 1994 GBP, cost of procedures, admissions, reoperations, coronary arteriograms, hospital stay for reasons not related to revascularisation, antianginal medications.	Group 1: £5,448 (SE £173) Group 2: £6,498 (SE £134) p value: Sig	applicability. Data sources: Hospital unit costs from two hospitals (one in London, one outside). Drugs cost from BNF. Notes:		
			Cost-effectiveness	NR	^a based on the RITA trial ^b cost data were missing for 6 patients. ^c ITT analysis: in the CABG group 5 patients had PCTA and 6 no			
			Sensitivity analysis	The difference in cost was £1823 (sig) when data from the London hospital were used; £1145 in the single vessel disease subgroup; £970 in the multiple vessel disease subgroup.	intervention; in the PTCA group 7 patients had CABG, 29 PTCA and CABG in the same admission, and 10 no intervention. Data from non-London centre			

Study details	Patients	Interventions	Outcome measures	Effect size	Comments
Sculpher 2002 ¹⁵ UK	Patient group: patients with arteriographically proven coronary artery	Group 1: Medical management with possible	Number of deaths at 3 years	Group 1: 9 (1.8%) Group 2: 14 (2.8%) p value: 0.3***	unding/conflict of interest: ritish Heart Foundation; Medical esearch Council; Advanced
Economic analysis: Cost consequences analysis.	disease recruited from 20 centres in the UK and Ireland and	discontinuation if a patient no longer had angina symptoms.	Number of deaths and MI at 3 years	Group 1: 21 (4.1%) Group 2: 37 (7.3%) p value: 0.025	Cardiovascular Systems Inc. (USA), Interventions (UK), Cordis Ltd, Schneider (UK) and Nycomed Ltd.
Study design RCT*	suitable for both continued medical therapy and PTCA.	Group 2: PTCA. Stents and other	Patients with grade 2 or worse angina at 1 year	Group 1: 139 (27.4%) Group 2: 83 (17.0%) p value: 0.001	Limitations: Utility values were not estimated. No incremental analysis was
Duration of follow- up:	All patients N: 1018 Age (mean):	coronary interventional techniques were only used if initial	Patients with grade 2 or worse angina at 3 years	Group 1: 106 (21.5%) Group 2: 93 (19.5%) p value: 0.43	conducted. Stents were not used in the primary intervention.
3 years Perspective:	M/F: Drop outs:	revascularisation with balloon angioplasty was unsatisfactory.	Number of subsequent revascularisation (CABG or PTCA) at 3 years	Group 1: 155 Group 2: 111 p value: NR	Overall quality and applicability Minor limitations; partial applicability.
NHS Discount rates: Costs: 6% Effects: NA	Group 1** N: 514 Age (mean): M/F: Drop outs:		Mean cost per patient 1999 GBP, cardiac procedures, in- hospital stay, subsequent procedures, GP and outpatient visits, antianginal and cardiac drugs	Group 1: £3,613 Group 2: £6,299 p value: Sig	Data sources: Unit costs from five UK hospitals in different locations and national sources. Cost of drugs from the Prescription Pricing Authority.
	Group 2** N: 504		Cost-effectiveness	NR	Notes: * based on RITA-2 ¹⁶
	Age (mean): M/F: Drop outs:		Sensitivity analysis Subgroup analysis	Similar results when patients were stratified by CCS score, breathlessness, exercise time, and overall score. Similar results when no discount rate is	** ITT analysis: 471 of group 2 underwent the randomised PTCA. *** calculated by NCGC using a two- tailed Fisher's exact test
			One-way SA	applied, the cost of visits for non-cardiac reasons is excluded, or when unit costs from the 5 hospitals are used separately.	

Study details	Patients	Interventions	Outcome measures	Effect size	Comments
Walker 2006 ¹⁷ UK			Primary end points averted (coronary heart disease death, non-fatal myocardial infarction, hospital admission for cardiac chest pain)*	Group 2 - Group 1: 2.4% p value: NR	Funding/conflict of interest: Merck KGaA
Economic analysis: Cost-effectiveness analysis	trial ¹⁸ . All patients N: 5126	Group 2:	Cases of definite acute coronary syndromes (coronary heart disease death, non-fatal myocardial infarction or unstable angina)*	Group 2 - Group 1: 1.5% p value: NR	Limitations: Effectiveness data were reported only in the incremental analysis.
Study design RCT Duration of follow-up:	Group 1 N: 2561	Usual care was 57% beta-blockers, 56% calcium channel blockers, 87% nitrates, 88% aspirin.	Number of people free from any major cardiovascular event (coronary heart disease death, non-fatal myocardial infarction, unstable angina, definite or probable angina, stroke or hospital admission for transient ischaemic attack).	Group 1: 2069 (80.8%) Group 2: 2136 (83.3%) p value: NR	SA was made only on the primary analysis (cost of care after discharge excluded). HRQoL was not assessed. Overall quality and
1.6 years Perspective: UK NHS	N: 2565	изриш.	Mean cost per patient 2002 GBP, cost of nicorandil (including 10% dispensing fee and two additional physician visits), adverse events related to nicorandil, hospital admissions, surgical procedures	Group 1: 243.7 Group 2: 243.6 p value: NR	applicability Potentially serious limitations; partial applicability.
Discount rates: Costs: 0% Effects: 0%			Cost-effectiveness Cost per additional unit of effectiveness	Nicorandil+usual care was dominant for all the three outcomes considered	Data sources: Resources used from RCT ¹⁸ . Cost of units from national sources.
			Sensitivity analysis One-way SA	Nicorandil is more costly than usual care when: - cost of care after discharge is included - either cost of cardiology, cardiac surgery or ICU is reduced by 20%	Notes: * calculated by NCGC from the incremental analysis

Study details	Patients	Interventions	Outcome measures	Effect size	Comments
Weintraub 1995 ¹⁹ USA	Patient group: patients with multivessel coronary artery disease	Group 1: PTCA	Number of in-hospital deaths	Group 1: 2 (1%) Group 2: 2 (1%) p value: Not sig	Funding/conflict of interest: Grant from the National Heart, Lung and Blood Institute.
Economic analysis: Cost consequences analysis	(60% two-vessel disease and 40% three-vessel disease)	Group 2: CABG	Number of in-hospital MI	Group 1: 6 (3%) Group 2: 20 (10.3%) p value: 0.005	Limitations: Other direct medical costs (e.g.
Study design RCT*	All patients** N: 392 M/F: 289/103		Number of deaths during 3- year follow-up	Group 1: 14 (7.1%) Group 2: 12 (6.2%) p value: Not sig	medications) were not included. Costs were calculated based on charges. The authors note that costs and outcomes of procedures
Duration of follow-up: 3 years	Diabetes: 90 Prior MI: 160 Drop outs: 8		Number of MI during 3-year follow-up	Group 1: 29/173 (14.6%) Group 2: 38/172 (19.6%) p value: Not sig	could vary over time. Costs from one US hospital only. HRQoL was not assessed.
Perspective: Health care provider	Group 1 N: 198		Patients requiring additional procedures during follow-up	Group 1: 89 (45%) Group 2: 25 (13%) p value: <0.0001	Overall quality and applicability
Discount rates: Costs: NR Effects: NR	M/F: 148/50 Diabetes: 49 Prior MI: 81	iabetes: 49	Proportion of patients in angina class $0 - 1 - 2 - 3 - 4$ at 3 years.	Group 1: 76% - 4% - 7% - 5% - 7% Group 2: 86% - 2% - 5% - 1% - 6% p value: 0.056	Potentially serious limitations; partial applicability. Additional outcomes:
	Drop outs: 2 Group 2		Proportion of patients on $0-1-2-3$ antianginal medication	Group 1: 34% - 47% - 17% - 2% Group 2: 49% - 39% - 10% - 2% p value: 0.029	Proportions of patients with overall good health, complete recovery, same economic status
	N: 194 Age (mean±Cl): 61±10 M/F: 141/53 Diabetes: 41	i): 61±10	Mean cost per 3-year procedure 1987 USD, hospital costs and physician charges.	Group 1: \$23,735 (£13,078) Group 2: \$25,310 (£13,946) p value: <0.0001	than before, returned to work, retired after procedure were not statistically different in the two groups.
	Prior MI: 79 Drop outs: 6		Cost-effectiveness	NR	Data sources:
		ch d (c w		When costs were inflated to 1993 USD or when charges were used instead of costs, the overall results did not change. The two interventions had similar costs (difference not sig) in patients with triple vessel disease with ≥50% diameter luminal narrowing in more than one site in at least one affected vessel. Multiple regression analysis: the surgical group was strongly correlated with initial hospital costs but it was not correlated with 3-year cumulative costs.	Costs were calculated from hospital charges applying the cost-to-charge ratios. Notes: * Based on the EAST trial ** Intention-to-treat analysis

Study details	Patients	Interventions	Outcome measures	Effect size	Comments
Weintraub 2000 ²⁰ USA	Patient group: patients with multivessel coronary artery disease (60% two-vessel	Group 1: PTCA	TCA year follow-up Group	Group 1: 41 (20.7%) Group 2: 34 (17.3%) p value: 0.40 Funding/c	Funding/conflict of interest: NR
Economic analysis: Cost consequences analysis Study design RCT*	disease and 40% three-vessel disease) All patients** N: 392	Group 2: CABG	Discounted mean cost per 8- year procedure*** 1997 USD, hospital costs and physician charges. Cost-effectiveness	Group 1: \$43,758 (£27,786) Group 2: \$46,225 (£29,353) p value: 0.29	Limitations: Other direct medical costs (e.g. medications) were not included. Costs were calculated based on charges. The authors note that costs
RC1"	M/F: 289/103 Diabetes: 90 Prior MI: 160		Sensitivity analysis	NR	and outcomes of procedures could vary over time. Costs from one US hospital only. HRQoL was not
Duration of follow-up: 8 years	Drop outs: 8 Group 1		, ,		assessed. Overall quality and applicability
Perspective: Health care provider	N: 198 Age (mean±Cl): 62±10 M/F: 148/50				Potentially serious limitations; partial applicability.
Discount rates: Costs: 3% Effects: NR	Diabetes: 49 Prior MI: 81 Drop outs: 2				Data sources: Costs were calculated from hospital charges applying the cost-to-charge ratios.
	Group 2 N: 194 Age (mean±Cl): 61±10 M/F: 141/53 Diabetes: 41 Prior MI: 79 Drop outs: 6				Notes: * Based on the EAST trial ** Intention-to-treat analysis *** cost data available for 197 patients in Group 1 and 189 in Group 2.

Study details	Patients	Interventions	Outcome measures	Effect size	Comments			
Weintraub 2004 ²¹ UK	Patient group: patients with multivessel disease	Group 1: Stent assisted PCI	Mortality rate	Group 1: 2.5% Group 2: 0.8% p value: 0.05	Funding/conflict of interest: consortium of stent manufacturers: Medtronic, Switzerland; Guidant, USA;			
Economic analysis: Cost-utility analysis	All patients N: 988	Group 2: CABG	Repeat revascularisation	Group 1: 17.2% Group 2: 4.2% p value: <0.001	Boston Scientific, Germany Limitations:			
Study design RCT**	Group 1 N: 488 Group 2				QALY at one year**	Group 1: 0.6938 Group 2: 0.6954 p value: not sig	Very short follow-up. Utility data were missing at one or more time points for 30% of the overall sample. No sensitivity analysis was conducted.	
Duration of follow-up: One year Perspective: UK NHS			Mean cost per patient 2004 GBP, cost of hospitalisation, procedure, ward, complications, follow- up, readmission, rehabilitation, medications.	Group 1: 6,296 Group 2: 8,905 p value: sig	Overall quality and applicability Potentially serious limitations; partial applicability.			
Discount rates: Costs: NA Effects: NA						Cost-effectiveness*** incremental cost per QALY gained	Group 2 vs Group 1: £1,630,525	Data sources: Resources used calculated for all the patients in the trial.
				Sensitivity analysis	NR	Costs per unit were obtained from BNF and NHS reference costs. Utilities were estimated from participants using EQ-5D scores.		
					Notes: * based on the SoS trial **utility was imputed when missing at one or more of the three time points for 30% of the overall sample. ***calculated by NCGC			

Study details	Patients	Interventions	Outcome measures	Effect size	Comments		
Weintraub 2008 ²² USA	Patient group: patients with stable coronary artery disease with >70% stenosis in at least one	Group 1: PCI – Stents and angioplasty	Utility estimated by Standard Gamble at 1 month – mean ± 95%CI	Group 1: 0.92±0.19 (n=665) Group 2: 0.91±0.20 (n=699) p value: 0.66	Funding/conflict of interest: Dept of Veterans Affairs, Canadian Institutes for Health research;		
Economic analysis: Cost-utility analysis	major epicardial coronary artery with objective evidence of myocardial ischemia or at least one coronary stenosis >80% and	Group 2: Medical therapy	Utility estimated by Standard Gamble at 3 months – mean ± 95%Cl	Group 1: 0.93±0.17 (n=669) Group 2: 0.92±0.19 (n=678) p value: 0.008	Merck&Co Pfizer; Bristol-Myers Squibb Medical Imaging; Kos Pharmaceuticals; Data Scope; Astra Zeneca; Key Pharmaceutical, Sanofi-		
Study design RCT*	classic angina without provocative testing.	Medical merapy	Utility estimated by Standard Gamble at 6 months – mean ± 95%Cl	Group 1: 0.93±0.17 (n=701) Group 2: 0.93±0.15 (n=665) p value: 0.20	Aventis; First Horizon; Nycomed Amersham.		
Duration of follow-up: 4.6 years	All patients N: 2287 Age (mean): 62		Utility estimated by Standard Gamble at 1 year – mean ± 95%Cl	Group 1: 0.93±0.17 (n=648) Group 2: 0.93±0.15 (n=636) p value: 0.53	Limitations: Valuation of utilities not obtained from public but from patients.		
3 years for costs	M/F: 1947/340 Previous MI: 876 Angina: 88% Multivessel disease: 69% Drop outs: 0 Group 1 N: 1149 Age (mean): 62 M/F: 979/170	Previous MI: 876 Angina: 88% Multivessel disease: 69% Drop outs: 0	Previous MI: 876 Angina: 88% Multivessel disease: 69% Drop outs: 0		Utility estimated by Standard Gamble at 2 years – mean ± 95%Cl	Group 1: 0.93±0.17 (n=550) Group 2: 0.92±0.17 (n=532) p value: 0.59	Patients in the study were low risk. Effectiveness was estimated for the total duration of the trial (4.6 years)
Perspective: Healthcare provider					Utility estimated by Standard Gamble at 3 years – mean ± 95%CI	Group 1: 0.92±0.20 (n=385) Group 2: 0.90±0.21 (n=379) p value: 0.004	while costs only for 3 years. These results were combined. PCI group included angioplasty too
Discount rates: Costs: 3% Effects: 3%			Discounted in-trial life years — mean ± 95%Cl	Group 1: 4.15±1.50 Group 2: 4.12±1.51 p value: 0.03	Overall quality and applicability Minor limitations; partial applicability. Notes:		
	Previous MI: 437 Utility: 0.90 (95% CI ±0.20) (n=775)		Discounted in-trial QALYs — mean ± 95%CI	Group 1: 3.56±1.34 Group 2: 3.51±1.36 p value: 0.05			
	Drop outs: 0 Group 2 N: 1138 Age (mean): 62 M/F: 968/170	Group 2 N: 1138 Age (mean): 62		Mean cost per patient over 3 years** 2004 USD, hospitalisation, PCI, medication, outpatient services.	Group 1: \$34,843 (£21,247) Group 2: \$24,718 (£15,073) p value: Sig (95% Cl of difference is always positive)	* based on the COURAGE trial ²³ ** 2008 GBP obtained by using the purchasing power parities and GDP deflator indexes (http://eppi.ioe.ac.uk/costconversion/default.aspx)	
	Previous MI: 439 Utility: 0.87 (95% CI ±0.22) (n=748)		Cost-effectiveness** Incremental cost per QALY gained	PCI vs Medical Treatment: \$206,229 (£125,759)	/ detault.aspx)		
	Drop outs: 0		Sensitivity analysis Structural SA	Extrapolating beyond RCT follow- up: PCI is still significantly more			

Study details	Patients	Interventions	Outcome measures	Effect size	Comments
				costly and more effective (not sig); If drug-eluting stents are used, they assumed no revascularisation after PCI, added cost of \$600 in the initial PCI and clopidogrel for one year, PCI would not be costeffective (ICER=\$197,465).	
			One-way SA	Life-years gained with PCI was varied from -40% to +40% → PCI still not cost-effective.	
			Threshold analysis	To achieve an ICER<\$50,000/QALY, PCI would need to improve QALYs by 0.60.	
			PSA	Ranges of incremental QALY with PCI -0.5 to 0.5; incremental costs \$4,000 to \$16,000. At a \$50k/QALY threshold PCI has a 25% probability of being cost-effective.	

Study details	Patients	Interventions	Outcome measures	Effect size	Comments	
Zhang 2006 ²⁴ UK	Patient group: symptomatic patients with typical angina and multivessel disease eligible for	Group 1: Stent-assisted PCI	Number patients dead at 1 year (%)	Group 1: 4 (2.1%) Group 2: 1 (0.5%) p value: 0.168	Funding/conflict of interest: NR	
Economic analysis: cost-consequences analysis	both CABG and PCI. All patients No. 305	Group 2:	Number of patients experiencing Q-wave myocardial infarction at 1 year (%)	Group 1: 13 (6.8%) Group 2: 17 (8.3%) p value: 0.998	Limitations: Source of costs not clear. No incremental analysis was conducted. Short follow-up.	
Study design RCT*	N: 190 Age (mean): 70.4 M/F: 136/54 Drop outs: 0 Group 2 N: 205	CABG	Number of patients experiencing bleeding at 1 year (%)	Group 1: 3 (1.6%) Group 2: 5 (2.4%) p value: 0.219	Overall quality and applicability Potentially serious limitations; partial	
Duration of follow-up: 1 year		Group 1 N: 190 Age (mean): 70.4 M/F: 136/54		Number of patients experiencing cerebrovascular accidents at 1 year (%)	Group 1: 5 (2.6%) Group 2: 5 (2.4%) p value: 0.388	applicability. Additional outcomes:
Perspective: Hospital				Number of patients having a repeat revascularisation (%)	Group 1: 37 (19.5%) Group 2: 7 (3.4%) p value: <0.0001	In-hospital death, myocardial infarction, bleeding and cerebrovascular accident wer not significantly different in the two groups.
Discount rates: Costs: NA Effects: NA			Adjusted improvement in SAQ Quality of Life score at 6 months**	Group 1: 25.5 Group 2: 30.5 p value: 0.0335	Average LOS was 13.2 days in group 2 vs 5.4 days in group 1 (Sig). Data sources:	
Energy 170	M/F: 150/55 Drop outs: 0		Adjusted SAQ Quality of Life score at 1 year**	Group 1: 30.7 Group 2: 32.1 p value: 0.5601	UK unit costs were applied to resource use recorded in the trial	
		Mean cost per patient 2000 GBP, cost of hospitalisation and follow-up	Group 1: £6,611 Group 2: £9,559 p value: Sig***	Notes: * based on the SoS trial ** scores of the Seattle Angina Questionnaire		
			Cost-effectiveness	NR	(SAQ) range from 0 to 100. A clinically important change is between 5 and 8 points.	
			Sensitivity analysis	Results were similar for younger patients (≤65 years).	- *** The difference was £2,948 (95% CI £1,432 – £4,198)	

All non-UK costs converted into GBP using the Purchasing Power Parities²⁵.

Reference List

- 1 Abizaid A, Costa MA, Centemero M, et al. Clinical and economic impact of diabetes mellitus on percutaneous and surgical treatment of multivessel coronary disease patients: insights from the Arterial Revascularization Therapy Study (ARTS) trial. Circulation 2001 Jul 31;104:533-8.
- 2 Borghi J, Guest JF. Economic impact of Elantan LA compared to Isordil, Tenormin and Tildiem LA in the treatment of stable angina in the UK. Journal of Drug Assessment 2000;3:1-20.
- 3 de Feyter PJ, Serruys PW, Unger F, et al. Bypass surgery versus stenting for the treatment of multivessel disease in patients with unstable angina compared with stable angina. Circulation 2002;105:2367-72.
- 4 Eefting F, Nathoe H, van Dijk D, et al. Randomized comparison between stenting and offpump bypass surgery in patients referred for angioplasty. Circulation 2003 Dec 9;108:2870-6.
- 5 Griffin SC, Barber JA, Manca A, et al. Cost effectiveness of clinically appropriate decisions on alternative treatments for angina pectoris: prospective observational study. Br Med J 2007;334:624-8.
- 6 Hambrecht R, Walther C, Mobius-Winkler S, et al. Percutaneous coronary angioplasty compared with exercise training in patients with stable coronary artery disease: a randomized trial. Circulation 2004 Mar 23;109:1371-8.
- 7 Henderson RA, Pocock SJ, Sharp SJ, et al. Long-term results of RITA-1 trial: clinical and cost comparisons of coronary angioplasty and coronary-artery bypass grafting. Lancet 1998 Oct 31;352:1419-25.
- 8 Hlatky MA, Boothroyd DB, Melsop KA, et al. Economic outcomes of treatment strategies for type 2 diabetes mellitus and coronary artery disease in the Bypass Angioplasty Revascularization Investigation 2 Diabetes trial. Circulation 2009 Dec 22;120:2550-8.
- 9 Legrand VM, Serruys PW, Unger F, et al. Three-year outcome after coronary stenting versus bypass surgery for the treatment of multivessel disease. Circulation 2004 Mar 9;109:1114-20.
- 10 McKenna C, McDaid C, Suekarran S, et al. Enhanced external counterpulsation for the treatment of stable angina and heart failure: A systematic review and economic analysis. Health Technol Assess 2009 Apr;13:1-90.
- O'Neill C, Normand C, Cupples M, et al. Cost effectiveness of personal health education in primary care for people with angina in the greater Belfast area of Northern Ireland. J Epidemiol Community Health 1996 Oct;50:538-40.

- 12 O'Neill C, Normand C, Cupples M, et al. A comparison of three measures of perceived distress: results from a study of angina patients in general practice in Northern Ireland. J Epidemiol Community Health 1996 Apr;50:202-6.
- 13 Cupples ME, McKnight A. Randomised controlled trial of health promotion in general practice for patients at high cardiovascular risk. Br Med J 1994 Oct 15;309:993-6.
- 14 Sculpher MJ, Seed P, Henderson RA, et al. Health service costs of coronary angioplasty and coronary artery bypass surgery: the Randomised Intervention Treatment of Angina (RITA) trial. Lancet 1994;344:927-33.
- 15 Sculpher MJ, Smith DH, Clayton T, et al. Coronary angioplasty versus medical therapy for angina: health service costs based on the second Randomised Intervention Treatment of Angina (RITA-2) trial. Eur Heart J 2002;23:1291-300.
- 16 Chamberlain DA, Fox K.A., Henderson RA, et al. Coronary angioplasty versus medical therapy for angina: The second randomised intervention treatment of angina (RITA-2) trial. Lancet 1997;350:461-8.
- 17 Walker A, McMurray J, Stewart S, et al. Economic evaluation of the impact of nicorandil in angina (IONA) trial. Heart 2006 May 1;92:619-24.
- 18 Dargie HJ. Effect of nicorandil on coronary events in patients with stable angina: The Impact Of Nicorandil in Angina (IONA) randomised trial. Lancet 2002;359:1269-75.
- 19 Weintraub WS, Mauldin PD, Becker E, et al. A comparison of the costs of and quality of life after coronary angioplasty or coronary surgery for multivessel coronary artery disease. Results from the Emory Angioplasty Versus Surgery Trial (EAST). Circulation 1995 Nov 15;92:2831-40.
- 20 Weintraub WS, Becker ER, Mauldin PD, et al. Costs of revascularization over eight years in the randomized and eligible patients in the Emory Angioplasty versus Surgery Trial (EAST). Am J Cardiol 2000 Oct 1;86:747-52.
- Weintraub WS, Mahoney EM, Zhang Z, et al. One year comparison of costs of coronary surgery versus percutaneous coronary intervention in the stent or surgery trial. Heart 2004 Jul;90:782-8.
- Weintraub WS, Boden WE, Zhang Z, et al. Cost-effectiveness of percutaneous coronary intervention in optimally treated stable coronary patients. Circulation Cardiovascular Quality and Outcomes 2008 Sep;1:12-20.
- 23 Boden WE, O'Rourke RA, Teo KK, et al. Optimal medical therapy with or without PCI for stable coronary disease. N Engl J Med 2007 Apr 12;356:1503-16.
- 24 Zhang Z, Mahoney EM, Spertus JA, et al. The impact of age on outcomes after coronary artery bypass surgery versus stent-assisted percutaneous coronary intervention: one-year results from the Stent or Surgery (SoS) trial. Am Heart J 2006 Dec;152:1153-60.

25	Organisation for Economic Cooperation and Development. OECD Prices and Purchasing Power Parities (PPP). OECD; 2010.

Appendix H. Cost-effectiveness analysis

1 Introduction

An economic model was developed to compare the cost-effectiveness of CABG and PCI for patients considered suitable for either revascularisation method (Chapter 12). In our economic literature review we found several studies (Chapter 12) but none of them met the quality and applicability criteria in full. Some¹⁻⁶ were not UK based and therefore only partially applicable. UK-based studies were either cost-consequences analyses⁷⁻⁹ or cost-utility analysis based on cohort studies¹⁰ with high risk of bias, or had a limited follow-up time¹¹.

The GDG considered it was necessary to build a model to formally evaluate the uncertain trade-offs between clinical outcomes and costs of the two revascularisation strategies.

2 Methods

2.1 Model overview

A cost-utility analysis was undertaken where costs and quality-adjusted life-years (QALYs) were considered from a UK NHS and personal social services perspective. Both costs and QALYs were discounted at a rate of 3.5% per annum in line with NICE methodological guidance¹².

The following general principles were adhered to:

- The GDG was consulted during the construction and interpretation of the model.
- When published data was not available we used expert opinion to populate the model.
- Model assumptions were reported fully and transparently.
- The results were subject to sensitivity analysis and limitations were discussed.
- The model employed a cost-effectiveness threshold of £20,000 per QALY gained.
- The model was peer-reviewed by another health economist at the NCGC.

2.1.1 Comparators

The interventions compared are CABG and PCI (with either drug-eluting stents [DES] or baremetal stents [BMS] or both). In the original meta-analysis (see review protocol in Appendix C) PCI included coronary balloon angioplasty but we decided to focus the economic analysis on PCI with stents as this is the widely used intervention and it is believed to be more effective than coronary balloon angioplasty. Costs and effectiveness in the model are therefore applicable to CABG and PCI with stents.

2.1.2 Population

We looked for data on patients with single vessel disease and multi-vessel disease separately as interventions might yield different outcomes (e.g. different probability of repeating intervention). We found only scarce data on the single vessel group (small sample sizes) and therefore focused solely on patients with multi-vessel disease.

2.1.3 Time horizon

In the base case analysis we adopted a ten-year time horizon, which was the longest followup available from the RCTs. In a sensitivity analysis we extrapolated results up to a life-time horizon assuming the annual probabilities of clinical events are constant from year ten.

2.2 Approach to modelling

2.2.1 Model structure

Given the recurrences of events over time, we decided to build a Markov model with a six-month cycle length as this was deemed the minimum clinically meaningful time interval to detect differences between interventions. All the probabilities, costs and health utilities were converted to reflect the six-month cycle length.

Clinical outcomes considered in the model were mortality, myocardial infarction (MI), further revascularisation procedures, and presence or absence of angina symptoms. Stroke was included in the clinical review; we did not include this outcome in the base case of the model as we observed only a non-significant trend for stroke to be more frequent in the CABG arm and the definition and severity of stroke was not reported in each study.

Both arms of the model have the same structure. In the first cycle (Figure 1), patients undergo the intervention and in the following six months can experience one of the transitional events considered: MI, revascularisation, or death. In the first two events, a HRQoL decrement is applied to MI and the cost of treating MI or the cost of further revascularisation is added. In case of death, the patient ends up in the dead health state which is associated with no cost and a HRQoL equal to 0. If the patient is still alive at the end of the cycle, they can either still have or not have angina symptoms. The presence of angina symptoms defines the health state of the following cycle ('No angina' or 'Angina').

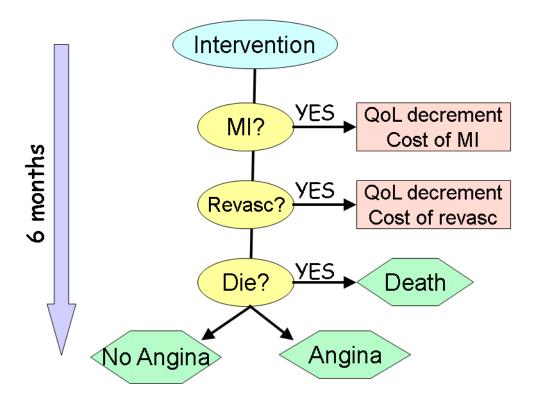


Figure 1 - First cycle of the model

In the following cycles patients re-enter the model and the same transitional events are evaluated with different time-dependent probabilities (see paragraph 2.3.2). When a patient undergoes a further revascularisation in the base case we have assumed that this is a PCI. We have varied this assumption in a sensitivity analysis using different proportion of CABG and PCI for additional revascularisation.

For each strategy the expected healthcare costs and expected QALYs were calculated by estimating the costs and QALYs for each state and then multiplying them by the proportion of patients who would be in that state as determined by the strategy taken (see 2.4).

2.2.2 Uncertainty

In the **probabilistic analysis** a probability distribution is defined for each model input parameter. When the model is run a value for each input is randomly selected from its respective probability distribution and mean costs and mean QALYs are calculated using these values. The model is run repeatedly – in this case 10,000 times – and results are summarised. Probability distributions in the analysis were based on error estimates from data sources, for example confidence intervals around relative risk estimates.

The way in which distributions are defined reflects the nature of the data, so for example probabilities were given a beta distribution, which is bounded by zero and one – see Table 1. All of the variables that were probabilistic in the model and their distributional parameters are detailed in Table 2.

Table 1: Description of the type and properties of distributions used in the probabilistic sensitivity analysis

Parameter	Type of distribution	Properties of distribution	Parameters for the distribution
Probabilities	Beta	Bounded on 0 – 1 interval. Derived from sample size, number of patients experiencing events.	$\alpha = \text{ events}$ $\beta = \text{ sample size} - \alpha$
Cost	Gamma	Bounded at 0. Derived from mean and standard error.	$\alpha = (mean/SEM)^2$ $\lambda = mean/SEM^2$
Number of resources used (number of stents)	Triangular	Derived from expert opinion.	Min = minimum value Likeliest = mean Max = maximum value
Utility decrements	Gamma	Bounded at 0. Derived from mean and standard error.	$\alpha = (mean/SEM)^2$ $\lambda = mean/SEM^2$
Relative risk	Lognormal	Bounded at 0. Derived from log (of the RR) and standard error.	$\mu = ln(RR)$ $SD(\mu) = (ln[UpperCl] - ln[lowerCl])/1.96*2$

SEM=standard error of the mean

For simplicity the following variables, were left deterministic (i.e. were not varied in the probabilistic analysis): discount rate and cost-effectiveness threshold (which were deemed to be fixed by NICE) and drug prices.

In addition, various **deterministic sensitivity analyses** were undertaken to test the robustness of model assumptions and data sources. In these one or more inputs were changed and the model rerun to see the impact on results.

2.3 Model inputs

2.3.1 Summary table of model inputs (details in subsequent sections)

Table 2 - Summary of parameters used in the model

Description of variable	Point estimat e	Probability distributio n	Parameters for the probability distribution	Source
a) Probability of events (s	see 2.3.2)			
Probability of death after CABG — 1 year	2.68%	Beta	$\alpha = 63$ $\beta = 2288$	Systematic review of clinical effectiveness (Appendix K)
Probability of death after CABG — from 1 to 2 years	0.37%	Beta	$\alpha = 0.4$ $\beta = 1075$	See 2.3.2

Probability of death after CABG — from 2 to 3 years	1.97%	Beta	$\alpha = 11.6$ $\beta = 577$	See 2.3.2
Probability of death after CABG — from 3 to 5 years	4.49%	Beta	α = 34.6 β = 736	See 2.3.2
Probability of death after CABG — from 5 to 10 years	17.79%	Beta	$\alpha = 32.9$ $\beta = 152$	See 2.3.2
Probability of MI after CABG — 1 year	4.44%	Beta	$\alpha = 102$ $\beta = 2197$	Systematic review of clinical effectiveness (Appendix K)
Probability of MI after CABG – from 1 to 2 years	0.72%	Beta	$\alpha = 4.2$ $\beta = 574$	See 2.3.2
Probability of MI after CABG — from 2 to 3 years	0.52%	Beta	$\alpha = 3$ $\beta = 571$	See 2.3.2
Probability of MI after CABG — from 3 to 5 years	3.49%	Beta	α = 26.6 β = 736	See 2.3.2
Probability of MI after CABG — from 5 to 10 years	1.57%	Beta	$\alpha = 2.9$ $\beta = 182$	See 2.3.2
Probability of repeating revascularisation after CABG – 1 year	4.59%	Beta	$\alpha = 85$ $\beta = 1767$	Systematic review of clinical effectiveness (Appendix K)
Probability of repeating revascularisation after CABG — from 1 to 2 years	0.69%	Beta	$\alpha = 7.3$ $\beta = 1047$	See 2.3.2
Probability of repeating revascularisation after CABG — from 2 to 3 years	1.43%	Beta	$\alpha = 8.2$ $\beta = 565$	See 2.3.2
Probability of repeating revascularisation after CABG — from 3 to 5 years	0.87%	Beta	$\alpha = 6.6$ $\beta = 748$	See 2.3.2

Probability of freedom from angina symptoms after CABG	85.20%	Beta	$\alpha = 121$ $\beta = 21$	Systematic review of clinical effectiveness
- 6 months				(Appendix K)
Probability of freedom from angina symptoms after CABG — 1 year	80.94%	Beta	$\alpha = 1168$ $\beta = 275$	Systematic review of clinical effectiveness (Appendix K)
Probability of freedom from angina symptoms after CABG – 2 years	87.20%	Beta	$\alpha = 508$ $\beta = 75$	Systematic review of clinical effectiveness (Appendix K)
Probability of freedom from angina symptoms after CABG – 3 years	87.20%	Beta	$\alpha = 503$ $\beta = 74$	Systematic review of clinical effectiveness (Appendix K)
Probability of freedom from angina symptoms after CABG – 5 years	78.84%	Beta	α = 637 β = 171	Systematic review of clinical effectiveness (Appendix K)
Probability of freedom from angina symptoms after CABG – 10 years	64.04%	Beta	$\alpha = 130$ $\beta = 73$	Systematic review of clinical effectiveness (Appendix K)
Relative risk of death at 1 year — PCI vs. CABG	1.18	Log-normal	$\mu = 0.166$ $SD(\mu) = 0.168$	Systematic review of clinical effectiveness (Appendix K)
Relative risk of death at 2 years — PCI vs. CABG	1.32	Log-normal	$\mu = 0.278$ $SD(\mu) = 0.238$	Systematic review of clinical effectiveness (Appendix K)
Relative risk of death at 3 years — PCI vs. CABG	0.79	Log-normal	$\mu = -0.236$ $SD(\mu) = 0.278$	Systematic review of clinical effectiveness (Appendix K)
Relative risk of death at 5 years — PCI vs. CABG	1.11	Log-normal	$\mu = 0.104$ $SD(\mu) = 0.154$	Systematic review of clinical effectiveness (Appendix K)
Relative risk of death at 10 years — PCI vs. CABG	0.95	Log-normal	$\mu = -0.051$ $SD(\mu) = 0.173$	Systematic review of clinical effectiveness (Appendix K)

Relative risk of MI at 1 year – PCI vs.	1.20	Log-normal	μ = 0.182	Systematic review of clinical
CABG			$SD(\mu) = 0.130$	effectiveness (Appendix K)
Relative risk of MI at 2 years — PCI vs. CABG	1.30	Log-normal	$\mu = 0.262$ $SD(\mu) = 0.231$	Systematic review of clinical effectiveness (Appendix K)
Relative risk of MI at 3 years — PCI vs. CABG	1.30	Log-normal	$\mu = 0.262$ $SD(\mu) = 0.220$	Systematic review of clinical effectiveness (Appendix K)
Relative risk of MI at 5 years — PCI vs. CABG	1.36	Log-normal	$\mu = 0.307$ $SD(\mu) = 0.146$	Systematic review of clinical effectiveness (Appendix K)
Relative risk of MI at 10 years — PCI vs. CABG	1.27	Log-normal	$\mu = 0.239$ $SD(\mu) = 0.276$	Systematic review of clinical effectiveness (Appendix K)
Relative risk of repeating revascularisation at 1 year — PCI vs. CABG	3.55	Log-normal	$\mu = 1.267$ $SD(\mu) = 0.117$	Systematic review of clinical effectiveness (Appendix K)
Relative risk of repeating revascularisation at 2 years — PCI vs. CABG	4.42	Log-normal	$\mu = 1.486$ $SD(\mu) = 0.139$	Systematic review of clinical effectiveness (Appendix K)
Relative risk of repeating revascularisation at 3 years — PCI vs. CABG	4.03	Log-normal	$\mu = 1.393$ $SD(\mu) = 0.167$	Systematic review of clinical effectiveness (Appendix K)
Relative risk of repeating revascularisation at 5 years — PCI vs. CABG	4.15	Log-normal	$\mu = 1.423$ $SD(\mu) = 0.135$	Systematic review of clinical effectiveness (Appendix K)
Relative risk of freedom from angina symptoms at 6 months – PCI vs. CABG	1.01	Log-normal	$\mu = 0.010$ $SD(\mu) = 0.048$	Systematic review of clinical effectiveness (Appendix K)
Relative risk of freedom from angina symptoms at 1 year – PCI vs. CABG	0.87	Log-normal	$\mu = -0.139$ $SD(\mu) = 0.020$	Systematic review of clinical effectiveness (Appendix K)

Dolastico viete ef	0.00	1	0.002	C
Relative risk of	0.92	Log-normal	$\mu = -0.083$	Systematic review
angina symptoms at			CD(11) = 0.005	of clinical
2 years – PCI vs.			$SD(\mu) = 0.025$	effectiveness
CABG				(Appendix K)
Dalatina siste of	0.04	lan		Constant of the constant
Relative risk of	0.94	Log-normal	$\mu = -0.062$	Systematic review
angina symptoms at			CD() — 0.005	of clinical
3 years — PCI vs.			$SD(\mu) = 0.025$	effectiveness
CABG				(Appendix K)
Relative risk of	0.92	Log-normal	µ = -0.083	Systematic review
angina symptoms at	0.72	Log-normal	μ – -0.003	of clinical
5 years - PCI vs.			$SD(\mu) = 0.027$	effectiveness
CABG			ου(μ) 0.027	(Appendix K)
G/120				(Appendix IV)
Relative risk of	0.91	Log-normal	μ = -0.094	Systematic review
angina symptoms at		3		of clinical
10 years - PCI vs.			$SD(\mu) = 0.081$	effectiveness
CABG			,, ,	(Appendix K)
				,
b) Quality of life values (see 2.3.3)			
Utility of No Angina	0.87	Beta	$\alpha = 348$	Melsop 2003 ¹³
			λ = 52	
Utility decrement of	-0.167	Gamma	$\alpha = 2.678$	See 2.3.3
Angina vs. No angina			$\lambda = 16.04$	
Utility decrement after	-0.24	Gamma	$\alpha = 177.78$	See 2.3.3
MI			$\lambda = 740.74$	
Utility decrement of	-0.06	Gamma	$\alpha = 39.81$	See 2.3.3
CABG vs. PCI			$\lambda = 663.46$	
c) Costs (see 2.3.4)				
Cost of CABG	£7,959	Gamma	$\alpha = 13.04$	NHS Reference
procedure			$\lambda = 0.0016$	Costs 2008-09,
				Elective Inpatient
				CABG 1st time
		_		
Cost of PCI procedure	£2,610	Gamma	$\alpha = 2.64$	NHS Reference
			$\lambda = 0.0010$	Costs 2008-09,
				Elective Inpatient
				PCI 0 – 2 stents ¹⁴
Cost of each stent	£300	Camera	a = 15.10	Evporto opinion
Cost or each stent	むいし	Gamma	$\alpha = 15.19$	Experts opinion
			$\lambda = 0.0506$	
N 1 C	4	т	0	F
Number of stents	4	Triangular	Min = 2	Experts opinion
used			Likeliest = 4	
			Max = 6	

Cost of Clopidogrel treatment over 12 months	£436	None		BNF 5915
Cost of Rehab	£550	Gamma	$\alpha = 15.19$ $\lambda = 0.0276$	Bethell 2007 ¹⁶
Cost of angiography	£841	Gamma	$\alpha = 11.66$ $\lambda = 0.0139$	2008-09 NHS Ref costs: Day cases, HRG EA41Z - Other Non-Complex Cardiac Surgery + Catheterisation ¹⁴
Cost of MPS with SPECT	£293	Gamma	$\alpha = 15.19$ $\lambda = 0.0518$	Chest Pain guideline ¹⁷
Cost of medications over 6 months	£61.37	None		See 2.3.4.2
Cost of treatment of MI	£1,783	Gamma	$\alpha = 15.19$ $\lambda = 0.00852$	Acute Coronary Syndromes Guideline ¹⁸
Cost of referral	£112	Gamma	$\alpha = 15.19$ $\lambda = 0.1356$	2008-09 NHS Reference Costs- Consultant Led: Follow up Attendance Non- Admitted Face to Face - Cardiology ¹⁴
d) Other parameters and	assumption			
Discount rate (cost and QALYs)	3.5%	none		NICE reference case

2.3.2 Baseline event rates and relative treatment effects

CABG was used as the baseline arm of the model. Data on event rates in this arm were derived from the systematic review of clinical effectiveness (Appendix K). Events in the model were total MI (both fatal and non-fatal), repeat revascularisation, and death. Only studies of CABG versus PCI with stents were included and the probabilities of events for each available time point (1 year, 3 years, 5 years, and 10 years) were calculated as:

$$P = r/n$$

Where r is the number of events in the CABG arm and n is the total number of patients randomised to CABG.

Probabilities of events at year 1 were taken directly from the meta-analysis for that time point. Probabilities at subsequent time points were calculated as follows:

$$p_{t2-t1} = \frac{p_{t2} - p_{t1}}{1 - p_{t1}}$$

Where

 p_{t2-t1} is the probability of an event between an initial time t1 and a subsequent time t2 p_{t1} is the total probability of events at the initial time t1 and p_{t2} is the total probability of events at the subsequent time t2.

Among the patients alive at follow-up, the proportions of those who had angina symptoms were obtained from those studies reporting the number or proportion of patients with angina or no angina. In some papers results were expressed as mean CCS score (e.g. Buszman et al. (2008)¹⁹) and were excluded. If papers reported the number of patients in each CCS scores we combined CCS 0 + I to represent the 'No Angina' state, and II + III + IV to represent the 'Angina' state. The overall proportion of patients with or without angina at a time-point is used in the model to determine the angina/no angina health state for the whole cohort reaching the end nodes. We assumed that the proportion in each cycle was the same as the proportion at the following available time point. For example, in cycles 6 to 9 (corresponding to 3.5. up to 5 years) 78.84% of patients who are still alive have no angina in the CABG arm; this figure corresponds to the probability of being angina-free at 5 years.

Table 3 summarises the clinical effectiveness data used in the model.

Table 3 - Summary of estimates of effectiveness used in the base case model

Parameter	Time point	Probability at time x — CABG arm	Probability from time (x- n) to time x	RR PCI vs. CABG	Source
Death (all)	1 year	2.68%	-	1.18	Sigwart et al. 2002 ²⁰ , Eefting et al. (2003) ³ , Serruys et al. (2001) ²¹ , Buszman et al. (2008) ¹⁹ , Serruys et al. (2009) ²² , Hueb et al. (2004) ²³
	2 years	2.71%	0.37%	1.32	Unger et al. (2003) ²⁴ , Booth et al. (2008) ²⁵
	3 years	4.63%	1.97%	0.79	Serruys et al. (2005) ²⁶
	5 years	8.91%	4.49%	1.11	Serruys et al. (2005) ²⁶ , Hueb et al. (2007) ²⁷
	10 years	25.12%	17.79%	0.95	Hueb et al. (2010) ²⁸
MI (all)	1 year	4.44%	-	1.20	Sigwart et al. 2002 ²⁰ , Eefting et al. (2003) ³ , Serruys et al.

					(2001) ²¹ , Serruys et al. (2009) ²² , Hueb et al. (2004) ²³
	2 years	5.12%	0.73%	1.30	Unger et al. (2003) ²⁴ , Booth et al. (2008) ²⁵
	3 years	5.62%	0.52%	1.30	Serruys et al. (2005) ²⁶
	5 years	8.91%	3.49%	1.36	Serruys et al. (2005) ²⁶ , Hueb et al. (2007) ²⁷
	10 years	10.34%	1.57%	1.27	Hueb et al. (2010) ²⁸
Repeat	1 year	4.59%	-	3.55	Eefting et al. (2003) ³ , Serruys et al. (2001) ²¹ , Buszman et al. (2008) ¹⁹ , Serruys et al. (2009) ²² , Hueb et al. (2004) ²³
revascularisation	2 years	5.70%	0.69%	4.42	Unger et al. (2003) ²⁴ , Booth et al. (2008) ²⁵
	3 years	6.61%	1.43%	4.03	Serruys et al. (2005) ²⁶
	5 years	7.43%	0.87%	4.15	Serruys et al. (2005) ²⁶ , Hueb et al. (2007) ²⁷
	6 months	85.20%	-	1.01	Eefting et al. (2003) ³
Patients free of angina	1 year	80.94%	-	0.87	Sigwart et al. 2002 ²⁰ , Eefting et al. (2003) ³ , Serruys et al. (2001) ²¹ , Hueb et al. (2004) ²³
	2 years	87.20%		0.92	Unger et al. (2003) ²⁴
	3 years	87.20%	-	0.94	Legrand et al. (2004) ⁴
	5 years	78.84%	-	0.92	Serruys et al. (2005) ²⁶ , Hueb et al. (2007) ²⁷
	10 years	64.04%	-	0.91	Hueb et al. (2010) ²⁸

^{*} Data not used in the model as inconsistent with the trend.

Probability of death at 6 years was available from the study by Booth et al. $(2008)^{25}$; however these data showed some inconsistencies when compared to the meta-analysis of all the studies at previous time points (i.e. lower mortality rate compared to previous year) and we decided not to use it in the model. The same decision was made for the repeat revascularisation at 10 years from Hueb et al. $(2010)^{28}$, where the overall proportion of

patients experiencing a repeat revascularisation was lower than that at 5 years as defined by the meta-analysis, which included the 5-year follow-up of the same study²⁷.

2.3.3 Utilities

For economic evaluation, a specific measure of HRQoL known as utility is required to calculate QALYs. Utilities indicate the preference for health states on a scale from 0 (death) to 1 (perfect health). The NICE reference case specifies that the preferred way for this to be assessed is by the EQ-5D instrument.

Utilities were attached to the health states in the model (angina, no angina, death) and decrements in HRQoL (disutilities) were calculated for the transitional events in the model (MI and initial revascularisation, in a sensitivity analysis also repeat revascularisation).

A systematic search identified few studies with de novo utility measures. We selected only those studies reporting utility values separately in patients with and without symptoms of angina. Serruys et al. $(2001)^{21}$ reported EQ-5D scores in a randomised trial of PCI versus CABG, but did not report EQ-5D scores separately for patients with or without angina. We therefore decided to use the utilities from another RCT¹³ on patients with multivessel coronary artery disease and angina or documented ischemia. In this study time trade-off scores in 400 patients with angina and in 58 patients without angina were obtained through telephone interviews in the USA. Scores in patients free of angina were significantly higher than scores in patients with angina (p<0.01). Disutility of CABG was calculated as a differential from the PCI intervention based on the study by Serruys et al. $(2001)^{21}$. In this RCT, one month after the intervention patients in the surgery group had a EQ-5D score of 0.78 (SD \pm 0.17) compared to 0.84 (SD \pm 0.16) in patients one month after PCI. We assumed the difference in utility lasts only for one month as data up to this point was available. The total QALY loss is calculated as follows:

QALY loss =
$$(uPCI - uCABG)/(12 \text{ months}) = (0.84 - 0.86)/12 = 0.005$$

Where

uPCI is the EQ-5D score in the PCI group one month after the intervention and uCABG is the EQ-5D score in the CABG group one month after the intervention.

However in a study by Scuffham et al. $(2006)^{29}$, the recovery time after CABG was considered to be 2.5 months. Compared to this study, we have underestimated the decrement in HRQoL after surgery.

To estimate the disutility after a MI, we used the value reported in the HTA by Ward et al. $(2007)^{30}$; this was obtained from personal communication with the author of a RCT 31 . In this study 31 EQ-5D questionnaires were administered to patients with chest pain for whom a record of diagnosis including MI was available. The EQ-5D scores for patients with MI was 0.760 (uMI); as 1 was the utility representing perfect health (uPH), the disutility due to MI (disMI) corresponds to:

$$disMI = -(uPH - uMI) = -(1-0.760) = -0.24$$

This figure was divided by 2 to reflect the six-month cycle length.

Utilities used in the base case analysis are reported in Table 4.

Table 4 - Utility values used in the model

Parameter	Base case value	Source
Utility no angina	0.87 (SE 0.0435)	Melsop 2003 ¹³
Utility angina	0.703 (SE 0.0923)	Melsop 2003 ¹³
Immediate disutility		Calculated from Serruys2001 ²¹
CABG (QALYs lost)	-0.005	
Immediate disutility MI (QALYs lost)	-0.24	Calculated from Ward2007 ³⁰

While in the base case the disutility from CABG was estimated as a differential from PCI and no disutility was attached to PCI, in a sensitivity analysis we have calculated the disutility from both PCI and CABG as differentials from the No Angina state. In this way we incorporated an estimate of the disutility associated with the repeat PCI during follow-up (see 3.2). In another study identified in our search³², EQ-5D scores were calculated for patients in the procedure subgroups: event free, repeat PCI, repeat CABG. In a sensitivity analysis we used the differential utility between the event free group (0.85) and the repeat PCI group (0.77) to estimate the disutility associated with the repeat revascularisation, assuming it lasts for one month. Results are reported in 3.2.

2.3.4 Resource use and cost

Costs are associated either with initial strategy (CABG or PCI), health states ('angina' or 'no angina'), or transitional events (MI, revascularisation, and development of angina).

2.3.4.1 Cost of initial strategy

The cost of the initial strategy is used in the first cycle of the model (cycle 0). Cost components are described in Table 5 and comprise the cost of initial procedure, necessary medical therapy following PCI, cost of medical treatment as for the 'no angina' state (see 2.3.4.2) and rehabilitation. In a study by Bethell et al. (2007)¹⁶ a different proportion of patients have rehabilitation after CABG compared to PCI. However in the model we assume everyone undergoes rehabilitation regardless of their initial intervention.

Table 5 - Initial cost of intervention

	CABG	PCI	Source
Cost of initial procedure - CABG	£7,959	-	NHS Reference Costs 2008-09, Elective Inpatient CABG 1st time ¹⁴
Cost of initial procedure - PCI	-	£2,610	NHS Reference Costs 2008-09, Elective Inpatient PCI 0 – 2 stents Or PCI 3 or more stents (EA49Z) ¹⁴

Cost of additional stents	-	4 * £300	Experts opinion
Treatment with Clopidogrel for 12 months*	-	12*£36.35	BNF 59 ¹⁵
Medical treatment (no Angina)	£43	£42.55	BNF 59 ¹⁵
Rehabilitation	£550	£550	Bethell et al. (2007) ¹⁶
TOTAL	£8,552	£4,839	

^{*} the total 12 month cost of the treatment was added to the first 6-month cycle

In the NHS reference costs¹⁴, the cost of PCI procedure includes the cost of 0 to 2 stents. In our model, patients had multi-vessel disease and would have more than two stents. We asked the experts of our GDG to estimate the average number of stents required in this intervention for the included population (4 stents). We could not find the cost of stents from publicly available sources therefore the GDG experts provided us with this estimate as well (£300 each).

In the review of the economic literature we found a study 11 comparing the one-year costs of PCI and CABG in patients enrolled in the SoS trial, which was included in our review of clinical effectiveness (see Appendix E and Appendix G). In this study the cost of the initial procedure including hospitalisation and ward costs was higher in the CABG group compared to the PCI group (£7,321 vs. £3,884; p<0.05). These figures are very similar to the initial cost calculated in our model.

2.3.4.2 Cost of health states

The possible health states in which a patient could be in the model are 'angina', 'no angina' and 'death'. We collected information on the resources used while in these states from the GDG experts (data on medications use from a GP practice) which were supported by the estimates of medications used in patients randomised to optimal medical treatment in the COURAGE trial³³. We estimated the 6-month costs of the defined medical treatment based on national sources of unit costs¹⁵.

Patients who still have angina symptoms after the intervention are treated medically according to the treatment profile reported in Table 6.

Table 6 - Resources and cost of medical treatment in patients with angina

Class of drug	Name of drug a	Proportion of patients treated ^b	Total cost for 6 months ^c
Statins	Simvastatin 40mg 1/day	100%	£9.15
Aspirin	Aspirin 75 mg, 1/day	100%	£6.40
BB and CCB	Bisoprolol 5mg 1/day Amlodipine 10mg 1/day	Total 100% (BB 85%, CCB 15%)	£7.85
Ivabradine	lvabradine 5mg, 2/day	2%	£5.10
ACE inhibitors and ARB	Ramipril 5mg 1/day Losartan 50mg 1/day	Total 100% (ACE 75%, ARB 25%)	£27.00
Other drugs	Nicorandil 20mg, 2/day	5%	£4.75

Nitrates	lsosorbide mononitrate 20mg, 2/day	16%	£1.14
	Total		£61.39

- a) The most commonly used drug within the same class was identified by the GDG experts
- b) Data from a GP practice (personal communications).
- c) Source of cost BNF 59¹⁵. Cost of drugs was calculated using the lowest cost of non-proprietary medicines. E.g. if capsules were cheaper than tablets then the cost of capsules was used.

In a sensitivity analysis we have increased the cost of medications in the angina state based on the annual cost reported in the study by Ward et al. $(2007)^{30}$ which was £171; we added the cost of statins (reported in Table 6) to this figure.

In the model, patients with no angina would still be medically treated to prevent cardiovascular events. Drugs used and the computation of their cost are reported in Table 7.

Table 7 - Resources and cost of medical treatment in patients with no angina symptoms

Class of drug	Name of drug	Proportion of patients	Total cost for 6 months*
Statins	Simvastatin 40mg 1/day	100%	£9.15
Aspirin	Aspirin 75 mg, 1/day	100%	£6.40
ACE inhibitors and ARB	Ramipril 5mg 1/day Losartan 50mg 1/day	Total 100% (ACE 75%, ARB 25%)	£27.00
	Total		£42.55

^{*} Source of cost BNF 59¹⁵. Cost of drugs was calculated using the lowest cost of non-proprietary medicines. E.g. if capsules were cheaper than tablets then the cost of capsules was used.

No costs were associated with the death state.

2.3.4.3 Cost of transitional events

Transitional events in the model were MI, further revascularisation, and the appearance of angina symptoms (event preceding the 'angina' health state). Each of these events is associated with some costs (Table 8).

The cost of MI was obtained from the Acute Coronary Syndromes Guideline¹⁸, and it incorporates the cost of hospital stay, ambulance and A&E.

When a further revascularisation was required according to the clinical probability (2.3.2), this was assumed to be a PCI and its cost as calculated in 2.3.4.1 was used. This assumption was varied in a one-way sensitivity analysis where we increased the proportion of CABG/PCI as revascularisation procedure up to 1. The cost of CABG was used for the selected proportion of patients undergoing this procedure.

Patients who transit from the 'no angina' state to the 'angina' state are all assumed to incur the costs of a cardiology outpatient consultation, myocardial perfusion scan with SPECT, and coronary angiography as reported in Table 8.

Table 8 - Cost of transitional events in the model

Event in the model	Resource	Cost	Source
	Hospital stay,	£1,783	Acute Coronary
MI	ambulance and A&E		Syndromes
7			Guideline ¹⁸
		TOTAL £1,783	
	PCI procedure	£2,610	NHS Reference
	,	,	Costs 2008-09,
			Elective Inpatient
Further			PCI 0 – 2 stents
revascularisation			Or PCI 3 or more
			stents (EA49Z)14
	Stents	4*£300	Experts opinion
		TOTAL £3,810	
	Referral to cardiologist	£112	NHS Reference
			Costs 2008-09 -
			Consultant Led:
			Follow up
			Attendance Non-
			Admitted Face to
			Face -
			Cardiology ¹⁴
Transition to	Invasive coronary	£841	NHS Reference
'angina' state	angiography		Costs 2008-09,
			Day cases, HRG
			EA41Z - Other
			Non-Complex
			Cardiac Surgery +
			Catheterisation ¹⁴
	Myocardial perfusion	£293	Chest Pain
	scan with SPECT		guideline ¹⁷
		TOTAL £1,246	

2.4 Computations

The mean cost and effectiveness of the two strategies were calculated using TreeAge Pro 2008. The incremental cost-effectiveness ratio was calculated in Microsoft Office Excel 2007.

2.4.1 Calculating QALYs gained

For each strategy, the expected QALYs per cohort of patients are calculated as follows:

Expected QALYs =
$$DisU_{p} + \sum_{j=1}^{19} \sum_{i=1}^{3} U_{i} P_{ij} + \sum_{j=1}^{19} \sum_{x=1}^{3} DisU_{x} P_{xj}$$

where

 $DisU_p$ = the disutility for the initial intervention p

 $U_i = \mbox{the utility score for health state } i$

 P_{ij} = the proportion of patients in health state i at cycle j

 $DisU_x$ = the disutility of event x

 P_{xi} = the probability of event x at cycle j

and where

intervention p could be either PCI or CABG,

health state i could be any of the health states represented by the green boxes in Figure 1 (angina, no angina, death)

and event x could be MI or further revascularisation.

The proportion of patients in each health state depends on the effectiveness of the treatment, in terms of mortality and improvement of symptoms.

QALYs were then discounted to reflect time preference. QALYs during cycle 0 were not discounted. The total discounted QALYs was the sum of the discounted QALYs per cycle.

The overall 10-year expected QALYs are given by the sum of the discounted QALYs calculated for each cycle. The *incremental QALYs gained* associated with a treatment strategy are calculated as the difference between the expected QALYs with that strategy and the expected QALYs with the comparator.

2.4.2 Calculating costs

For each strategy, the expected cost per cohort of patients is calculated as follows:

Expected cost =
$$C_s + \sum_{i=1}^{19} \sum_{j=1}^{3} C_i P_{ij} + \sum_{i=1}^{19} \sum_{j=1}^{3} C_j P_{xj}$$

where

 $C_s = cost of the initial strategy (PCI or CABG)$

 $C_i = cost of health state i$

 P_{ij} = proportion of patients in health state i in cycle j

 $C_x = cost of event x$

 P_{xi} = probability of event x in cycle j

and where health state i could be any of the health states represented by the green boxes in

Figure 1 (death, angina, no angina), and event x could be any of the events described in Table 8.

The proportion of patients in each health state depends on the effectiveness of the treatment, in terms of mortality and improvement of symptoms.

Future costs (those occurring after cycle 1) were discounted to reflect time preference.

The overall 10-year expected costs are given by the sum of the discounted costs calculated for each cycle. The incremental cost associated with a treatment strategy is calculated as the difference between the expected cost with that strategy and the expected cost with the comparator.

2.4.3 Calculating cost-effectiveness

The widely used cost-effectiveness metric is the incremental cost-effectiveness ratio (ICER). This is calculated by dividing the difference in costs associated with two alternatives by the difference in QALYs. The decision rule then applied is that if the ICER falls below a given cost per QALY threshold then the result is considered to be cost-effective. If both costs are lower and QALYs are higher the option is said to dominate and an ICER is not calculated.

$$ICER = \frac{Costs (B) - Costs (A)}{QALYs (B) - QALYs (A)}$$

Where:

Costs/QALYs(X) = total discounted costs/QALYs for option X

Option B is cost-effective if: ICER < Threshold

It is also possible, for a particular cost-effectiveness threshold, to re-express cost-effectiveness results in term of net benefit (NB). This is calculated by multiplying the total QALYs for a comparator by the threshold cost per QALY value (for example, £20,000) and then subtracting the total costs. The decision rule then applied is that the comparator with the highest NB is the most cost-effective option at the specified threshold. That is the option that provides the highest number of QALYs at an acceptable cost. For ease of computation NB is used to identify the optimal strategy in the probabilistic analysis simulations.

Net Benefit
$$(X) = \Phi ALYs(X) \times D - Costs(X)$$

Where: $Costs/QALYs(X) = total \ discounted \ costs/QALYs \ for option \ X; \ D = cost-effectiveness \ threshold$

The probabilistic analysis was run for 10,000 simulations. For each simulation, total discounted costs and total discounted QALYs were calculated for each treatment option. The net benefit was also calculated and the most cost-effective option identified (that is, the one with the highest net benefit), at a threshold of £20,000 per QALY gained.

The results of the probabilistic analysis were summarised in terms of mean discounted costs and QALYs with confidence intervals, where means were the average of the 10,000 simulated estimates and the 95% confidence intervals are the 2.5 and 97.5 percentiles. A cost-effectiveness ratio was calculated from the mean costs and QALYs. The percentage of simulations where each strategy was the most cost-effective gives an indication of the strength of evidence in favour of that strategy being cost-effective.

2.4.4 Interpreting results

Our analysis was built around clinical data and costs for patients with multi-vessel disease who are eligible for both procedures. Consideration will be given to the fact that in patients with single vessel disease PCI is likely to be less costly and have the same effectiveness. In many parameters of our model we have favoured CABG, e.g. we excluded stroke from the outcomes, and we have included RCTs where a mix of stent and non-stent PCI was used (MASS-II trial)²⁸.

3 Results

3.1 Base case results

The base case results show that CABG generates more QALYs than PCI over a ten-year period but it generates more costs too (Table 9). The ICER is above what NICE considers to be cost-effective (£20,000/QALY). Therefore PCI is the most cost-effective choice among these two procedures for patients with characteristics similar to the ones enrolled in the trials included in the analysis.

Table 9 - Results of base case analysis

Strategy	Cost	Incr Cost	Eff	Incr Eff	ICER
PCI Stents	£10,638		6.1167		
CABG	£13,085	£2,447	6.1992	0.0825	£29,661

Table 10 reports the costs associated with the different types of resources considered in the model.

Table 10 - Cost breakdown - discounted cost per patient in the PCI and CABG strategy

Cost category	PCI	CABG
Procedures (including repeats)	£4,816	£8,221
Drugs	£1,165	£715
Further assessments	£3,895	£3,431
Treating MI	£212	£168
Rehabilitation	£500	£500
TOTAL	£10,638	£13,085

Overall CABG decreases those costs which occur later in the model (medication, further assessments, and treatment of MI) but in terms of cost of procedures CABG largely exceeds the cost in the PCI group even when the probability of repeating the procedure (higher in the PCI group) is accounted for.

3.2 Sensitivity analysis

3.2.1 Deterministic sensitivity analyses

The main driver of the results was the high initial cost of the CABG procedure.

Since PCI is associated with higher rates of repeat revascularisation, we have explored if results were sensitive to the future costs both by eliminating the discounting for costs and effectiveness (which in the base case favours interventions with low initial costs even if associated with higher future costs) and by changing the assumption around the type of procedure used as a repeat revascularisation (PCI in all the cases in the base case; CABG was possible in the sensitivity analysis).

In the base case the initial disutility associated with the CABG intervention was calculated incrementally compared to PCI; in a sensitivity analysis we have incorporated the disutility of repeating PCI by calculating the decrement in HRQoL as a differential from the 'no angina' state. We have also used alternative data on disutilities obtained from a separate study³².

Our clinical data were limited to a 10-year period; however we could extrapolate data to a lifetime horizon assuming a constant rate of events except for death which was assumed to be equal to the general population after 10 years from the intervention and therefore did not vary according to the initial intervention.

The results of the sensitivity analyses conducted are reported in Table 11.

Type of sensitivity analysis	Result
No discount rate	ICER CABG vs. PCI =
	£24,016/QALY
Threshold analysis on proportion of CABG as	PCI is the most cost-effective initial
repeat revascularisation procedure	strategy if less than 85% of the
	repeat revascularisation procedures
	are CABG
Disutilities of PCI and CABG calculated as	ICER CABG vs. PCI =
differential from 'no angina' state	£28,850/QALY
Threshold analysis on proportion of CABG as	PCI is the most cost-effective initial
repeat revascularisation procedure after disutilities	strategy if less than 83% of the
of PCI and CABG were calculated as differential	repeat revascularisation procedures
from 'no angina' state	are CABG
Disutility of PCI calculated from Shrive et al.	ICER CABG vs. PCI =
(2007) ³²	£27,070/QALY
Cost of medication in the angina state = £171 per	ICER CABG vs. PCI =
year excluding simvastatin ³⁰	£29,354/QALY
Lifetime horizon (mean patient's age = 65)	ICER CABG vs. PCI =
	£20,050/QALY

3.2.2 Probabilistic sensitivity analysis

The results of the PSA show the uncertainty over the base case results (Table 12). In non-linear models, such as Markov models, there is often a difference between the deterministic and probabilistic results and in such cases the probabilistic results should take precedence.

If we consider a 95% confidence interval the base case results did not reach statistical significance.

Table 12 - Results of PSA - CABG vs. PCI

Mean cost (£)	Mean QALYs	Mean ICER (£/QALY)	95% CI – lower limit (£/QALY)	95% CI – upper limit (£/QALY)	Probability of being cost- effective at £20,000/QALY
PCI 10,555	PCI 6.0857	34,971	CABG	PCI dominates	PCI 63%
CABG 12,982	CABG 6.1551	34,771	dominates	. c. commutos	CABG 37%

At a willingness to pay of £20,000/QALY PCI has only a 63% probability of being cost-effective; the two interventions have a similar probability (54% and 46% respectively for PCI and CABG) when a £30,000/QALY threshold is adopted (Figure 2).

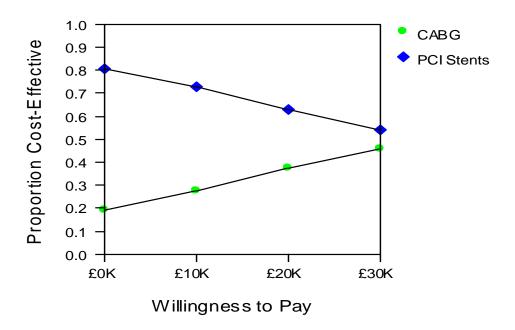


Figure 2 - Acceptability curve of PCI and CABG

The uncertainty can also be graphically represented by plotting the results of the incremental analysis for all the 10,000 simulations into a cost-effectiveness plane (Figure 3). Each point represents the ICER of CABG vs. PCI for each simulation. The dotted line represents the £20,000/QALY threshold: the dots below the line indicate a simulation where CABG was cost-effective and those above the line where CABG was not cost-effective. The ellipse delimits the 95% confidence area.

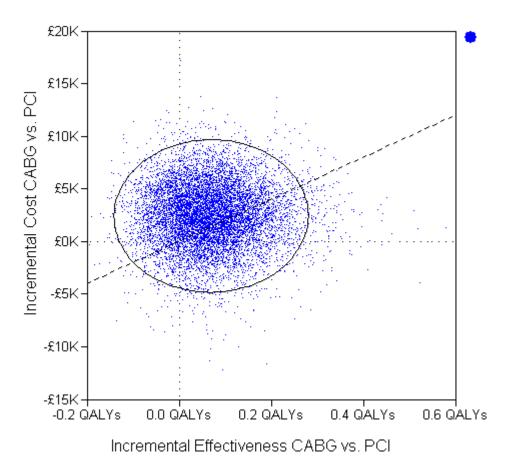


Figure 3 - Incremental cost-effectiveness scatterplot - CABG vs. PCI

4 Discussion

4.1 Summary of results

A new cost-utility analysis was developed which compared CABG and PCI as a revascularisation procedure for patients with angina who are eligible for both. This was based on the RCT data identified in the clinical review; the clinical outcomes incorporated in the model were mortality, myocardial infarction, repeat revascularisation, and presence of angina symptoms. Costs and QALYs were considered from a NHS and personal social services perspective.

We found that CABG was not cost effective when compared to PCI. This conclusion was robust to various deterministic sensitivity analyses; however, when parameters were varied simultaneously in a PSA the results were uncertain.

4.2 Limitations & interpretation

The analysis is based on clinical studies and therefore issues concerning the interpretation of the clinical studies also apply to the interpretation of the economic analysis. One of the main limitations of the model is the possibility that the included population is not representative of the general population of patients with angina. Moreover, the trials in the analysis were conducted over a long time period and the use of different surgical and percutaneous

techniques may have influenced the relative risks and benefits of the two revascularisation strategies.

The model structure was kept simple and did not incorporate the different mortality rate in patients with MI or angina. This was a pragmatic approach because the trials did not report different mortality rates in people with MI or angina in each arm.

We had to disregard some clinical data (i.e. mortality at 6 years from the SoS trial, and repeat revascularisation at 10 years from MASS-II trial) because they were inconsistent with the trend from the meta-analysis of all the studies at previous time points; in fact, the cumulative proportion of patients who were alive in the SoS trial or who had a repeat procedure in the MASS-II trial was smaller than the proportion at the previous time point calculated from the meta-analysis of clinical studies. In the latter example, the meta-analysis at a previous time point included the MASS-II trial as well.

HRQoL data were not available from most of the trials; some values were available from the ARTS study⁴; however, had we used HRQoL outcomes from one trial we would have had to disregard the intermediate clinical outcomes (incidence of MI, angina symptoms) from other trials. In our model we used one estimate of utility attached to the 'angina' health state, thus we did not capture the possible impact of differences in symptom severity.

We decided not to include stroke in the analysis because of concern about heterogeneity in the definition of stroke across the studies. Furthermore many assumptions on the severity and cost of treatment for stroke would have had to be made. Since the results of the model showed that PCI was more cost-effective and stroke was more frequent in the CABG group (see chapter 12) inclusion of stroke in the model would not have changed the overall result.

Furthermore, our analysis has been unfavourable to PCI as we added the cost of additional stents to the basic cost of the procedure, which already included the use of some stents. In addition, for every patient developing angina in any cycle after the initial intervention we included the costs of a referral, myocardial perfusion scan with SPECT, and coronary angiography, and this is likely to overestimate the true requirement for these additional procedures.

4.3 Generalisability to other populations / settings

Individuals participating in the trials included in the analysis were a highly selected population. The analysis was based on randomised trials of PCI versus CABG and the results only directly apply to patients considered eligible for either revascularisation procedure.

A validated risk score for patients with stable angina is not available and therefore a stratified analysis on different baseline risk was not performed as in practice the baseline risk cannot be precisely quantified.

Patients in the trials had multi-vessel disease; in single vessel disease the repeat revascularisation rate is generally lower compared to multi-vessel disease and PCI is likely to be an even more cost-effective option for this group of patients.

4.4 Comparisons with published studies

All the studies identified in our review (see Chapter 12 and economic evidence tables in Appendix G) consistently reported higher cost of CABG compared to PCI. The difference in costs tends to decrease when a longer follow-up time was considered (e.g. in the ARTS study⁴, RITA trial⁷). Of the other three cost-utility analyses^{3,10,11}, two^{3,11} showed that CABG was not cost-effective but their analysis was limited to a one-year time horizon. The other analysis¹⁰ concluded that CABG was cost-effective in patients suitable for both procedures; however this study was based on non-randomised data and probably most of the PCI procedures were without stents.

Our analysis included the routine use of stent during PCI procedures, and combines short and long follow-up data from a systematic review of RCTs.

4.5 Conclusion= Evidence statement

Our analysis suggests that CABG is effective but not cost-effective compared with PCI for patients eligible for both procedures but there is some uncertainty around this conclusion.

4.6 Implications for future research

Had a validated score for risk stratification for stable angina been available at the time of our analysis we could have identified the most appropriate population for each of the interventions compared. This would mean the resources are distributed more cost-effectively (i.e. offering CABG or PCI only to those patients that would benefit more from the intervention).

Reference List

- 1 Abizaid A, Costa MA, Centemero M, et al. Clinical and economic impact of diabetes mellitus on percutaneous and surgical treatment of multivessel coronary disease patients: insights from the Arterial Revascularization Therapy Study (ARTS) trial. Circulation 2001 Jul 31;104:533-8.
- 2 de Feyter PJ, Serruys PW, Unger F, et al. Bypass surgery versus stenting for the treatment of multivessel disease in patients with unstable angina compared with stable angina. Circulation 2002;105:2367-72.
- 3 Eefting F, Nathoe H, van Dijk D, et al. Randomized comparison between stenting and off-pump bypass surgery in patients referred for angioplasty. Circulation 2003 Dec 9;108:2870-6.

- 4 Legrand VM, Serruys PW, Unger F, et al. Three-year outcome after coronary stenting versus bypass surgery for the treatment of multivessel disease. Circulation 2004 Mar 9;109:1114-20.
- 5 Weintraub WS, Mauldin PD, Becker E, et al. A comparison of the costs of and quality of life after coronary angioplasty or coronary surgery for multivessel coronary artery disease. Results from the Emory Angioplasty Versus Surgery Trial (EAST). Circulation 1995 Nov 15;92:2831-40.
- 6 Weintraub WS, Becker ER, Mauldin PD, et al. Costs of revascularization over eight years in the randomized and eligible patients in the Emory Angioplasty versus Surgery Trial (EAST). Am J Cardiol 2000 Oct 1;86:747-52.
- 7 Henderson RA, Pocock SJ, Sharp SJ, et al. Long-term results of RITA-1 trial: clinical and cost comparisons of coronary angioplasty and coronary-artery bypass grafting. Lancet 1998 Oct 31;352:1419-25.
- 8 Sculpher MJ, Seed P, Henderson RA, et al. Health service costs of coronary angioplasty and coronary artery bypass surgery: the Randomised Intervention Treatment of Angina (RITA) trial. Lancet 1994;344:927-33.
- 9 Zhang Z, Mahoney EM, Spertus JA, et al. The impact of age on outcomes after coronary artery bypass surgery versus stent-assisted percutaneous coronary intervention: one-year results from the Stent or Surgery (SoS) trial. Am Heart J 2006 Dec;152:1153-60.
- 10 Griffin SC, Barber JA, Manca A, et al. Cost effectiveness of clinically appropriate decisions on alternative treatments for angina pectoris: prospective observational study. Br Med J 2007;334:624-8.
- 11 Weintraub WS, Mahoney EM, Zhang Z, et al. One year comparison of costs of coronary surgery versus percutaneous coronary intervention in the stent or surgery trial. Heart 2004 Jul;90:782-8.
- 12 National Institute for Health and Clinical Excellence. The Guidelines Manual 2009. London: National Institute for Health and Clinical Excellence; 2009.
- 13 Melsop KA, Boothroyd DB, Hlatky MA. Quality of life and time trade-off utility measures in patients with coronary artery disease. Am Heart J 2003 Jan;145:36-41.
- 14 Department of Health. NHS Reference Costs 2008-09. UK: Department of Health; 2010 Oct 25.
- 15 Royal Pharmaceutical Society of Great Britain. British National Formulary. 59 ed. London: Pharmaceutical Press; 2010.

- 16 Bethell H, Lewin R, Dalai H. Cardiac rehabilitation in the United Kingdom. Heart 2009;95:271-5.
- 17 National Clinical Guideline Centre for Acute and Chronic Conditions. Chest pain of recent onset: assessment and diagnosis of recent onset chest pain or discomfort of suspected cardiac origin. London: National Institute for Health and Clincial Excellence; 2010 Mar. Report No.: CG95.
- 18 National Clinical Guideline Centre for Acute and Chronic Conditions. Unstable Angina and NSTEMI: the early management of unstable angina and non-ST-segment-elevation myocardial infarction. London: National Institute for Health and Clincial Excellence; 2010 Mar. Report No.: CG94.
- 19 Buszman PE, Kiesz SR, Bochenek A, et al. Acute and late outcomes of unprotected left main stenting in comparison with surgical revascularization. J Am Coll Cardiol 2008 Feb 5;51:538-45.
- 20 Sigwart U, Stables R, Booth J, et al. Coronary artery bypass surgery versus percutaneous coronary intervention with stent implantation in patients with multivessel coronary artery disease (the Stent or Surgery trial): A randomised controlled trial. Lancet 2002;360:965-70.
- 21 Serruys PW, Unger F, Sousa JE, et al. Comparison of coronary-artery bypass surgery and stenting for the treatment of multivessel disease. N Engl J Med 2001;344:1117-24.
- 22 Serruvs PW, Morice MC, Kappetein AP, et al. Percutaneous coronary intervention versus coronary-artery bypass grafting for severe coronary artery disease. N Engl J Med 2009;360:961-72.
- 23 Hueb W, Soares PR, Gersh BJ, et al. The Medicine, Angioplasty, or Surgery Study (MASS-II): a randomized, controlled clinical trial of three therapeutic strategies for multivessel coronary artery disease. One-year results. J Am Coll Cardiol 2004;43:1743-51.
- 24 Unger F, Serruys PW, Yacoub MH, et al. Revascularization in multivessel disease: comparison between two-year outcomes of coronary bypass surgery and stenting. J Thorac Cardiovasc Surg 2003 Apr;125:809-20.
- 25 Booth J, Clayton T, Pepper J, et al. Randomized, controlled trial of coronary artery bypass surgery versus percutaneous coronary intervention in patients with multivessel coronary artery disease: six-year follow-up from the Stent or Surgery Trial (SoS). Circulation 2008 Jul 22;118:381-8.
- 26 Serruys PW, Ong AT, van Herwerden LA, et al. Five-year outcomes after coronary stenting versus bypass surgery for the treatment of multivessel disease: the final analysis

- of the Arterial Revascularization Therapies Study (ARTS) randomized trial. J Am Coll Cardiol 2005 Aug 16;46:575-81.
- 27 Hueb W, Lopes NH, Gersh BJ, et al. Five-year follow-up of the Medicine, Angioplasty, or Surgery Study (MASS II): A randomized controlled clinical trial of 3 therapeutic strategies for multivessel coronary artery disease. Circulation 2007;115:1082-9.
- 28 Hueb W, Lopes N, Gersh BJ, et al. Ten-year follow-up survival of the Medicine, Angioplasty, or Surgery Study (MASS II). A randomized controlled clinical trial of 3 therapeutic strategies for multivessel coronary artery disease. Circulation 2010 Aug 23;122:943-5.
- 29 Scuffham PA, Kosa J. The cost-effectiveness of fluvastatin in Hungary following successful percutaneous coronary intervention. Cardiovasc Drugs Ther 2006 Aug;20:309-17.
- 30 Ward S, Lloyd-Jones M, Pandor A, et al. A systematic review and economic evaluation of statins for the prevention of coronary events. Health Technology Assessment 11[14], 1-160. 2004.
- 31 Goodacre SW, Nicholl J, Dixon S, et al. Randomised controlled trial and economic evaluation of a chest pain observation unit compared with routine care. Br Med J 2004;328:254-7.
- 32 Shrive FM, Ghali WA, Johnson JA, et al. Use of the US and UK scoring algorithm for the EuroQol-5D in an economic evaluation of cardiac care. Med Care 2007;45:269-73.
- 33 Weintraub WS, Boden WE, Zhang Z, et al. Cost-effectiveness of percutaneous coronary intervention in optimally treated stable coronary patients. Circulation Cardiovascular Quality and Outcomes 2008 Sep;1:12-20.

Appendix I

Criteria for selecting key priorities for implementation

ey priorities for implementation	Selection criteria used
Explore and address issues according to the person's needs, which may include: - self-management skills such as pacing their activities and goal setting - concerns about the impact of stress, anxiety or depression on angina - advice about physical exertion including sexual activity.	have a high impact on outcomes that are important to patients
Offer people optimal drug treatment for the initial management of stable angina. Optimal drug treatment consists of one or two anti-anginal drugs as necessary plus drugs for secondary prevention of cardiovascular disease.	lead to more efficient use of NHS resources have a high impact on reducing variation in care and outcomes have a high impact on outcomes that are important to patient.
Consider revascularisation (coronary artery bypass graft [CABG] or percutaneous coronary intervention [PCI]) for people with stable angina whose symptoms are not satisfactorily controlled with optimal medical treatment.	 have a high impact on reducing variation in care and outcomes have a high impact on outcomes that are important to patient
When either procedure would be appropriate, offer PCI in preference to CABG for people with anatomically less complex disease whose symptoms are not satisfactorily controlled with optimal medical treatment, unless the person expresses a preference for CABG.	 lead to more efficient use of NHS resources highlights the need for practice to change may be viewed as potentially contentious, or difficult to implement for other reasons
When either procedure would be appropriate, take into account the potential survival advantage of CABG over PCI for people with multivessel disease whose symptoms are not satisfactorily controlled with optimal medical treatment and	have a high impact on outcomes that ar important to patient

who:

- have diabetes or
- are over 65 years or
- have anatomically complex three-vessel disease, with or without involvement of the left main stem.

Consider the relative risks and benefits of CABG and PCI for people with stable angina using a systematic approach to assess the severity and complexity of the person's coronary disease, in addition to other relevant clinical factors and comorbidities.

- lead to more efficient use of NHS resources
- have a high impact on outcomes that are important to patients

Ensure that there is a regular multidisciplinary team meeting to discuss the risks and benefits of continuing drug treatment or the revascularisation strategy (CABG or PCI) for people with stable angina. The team should include cardiac surgeons and interventional cardiologists. Treatment strategy should be discussed for the following people, including but not limited to:

- people with left main stem or anatomically complex threevessel disease
- people in whom there is doubt about the best method of revascularisation because of the complexity of coronary anatomy, the extent of stenting required or other relevant clinical factors and comorbidities.
- lead to more efficient use of NHS resources
- have a high impact on reducing variation in care and outcomes
- may be viewed as potentially contentious, or difficult to implement for other reasons

Ensure people with stable angina receive balanced information and have the opportunity to discuss the benefits, limitations and risks of continuing drug treatment, CABG and PCI to help them make an informed decision about their treatment. When either revascularisation procedure is appropriate, explain to the person:

- The main purpose of revascularisation is to improve the symptoms of stable angina.
- CABG and PCI are effective in relieving symptoms.
- Repeat revascularisation may be necessary after either CABG or PCI and the rate is lower after CABG.
- Stroke is uncommon after either CABG or PCI, and the incidence is similar between the two procedures.
- There is a potential survival advantage with CABG for some people with multivessel disease.

promote patient choice

Discuss the following with people whose symptoms are satisfactorily controlled with optimal medical treatment:

- their prognosis without further investigation
- the likelihood of having left main stem disease or proximal three-vessel disease
- the availability of CABG to improve the prognosis in a subgroup of people with left main stem or proximal threevessel disease
- the process and risks of investigation
- the benefits and risks of CABG, including the potential survival gain.

promote patient choice

Criteria for selecting high priority research recommendations

1.1 Adding a newer anti-anginal drug to a calcium channel blocker

Research question:

What is the clinical and cost effectiveness of adding a newer anti-anginal drug (nicorandil, ivabradine or ranolazine) to a calcium channel blocker for treating stable angina?

Why this is important:

We do not know the clinical and cost effectiveness of adding a newer anti-anginal drug to a calcium channel blocker in people with stable angina. We propose a double-blind placebo-controlled randomised trial comparing the addition of a newer anti-anginal drug to a calcium channel blocker with a calcium channel blocker alone in people with stable angina whose symptoms are not being controlled. Endpoints would include symptom severity, quality of life, long-term morbidity and mortality, and cost effectiveness. The results of the trial would influence clinical practice and inform future updates of key recommendations in this guideline.

Criteria for selecting high-priority research recommendations:

Importance to patients or the population. What would be the impact on the population of any new or altered guidance? (for example, acceptability to patients, quality of life, morbidity or disease prevalence, severity of disease or mortality).	It is important to find out the additional benefit that can be gained from using a newer anti-anginal agent with a Calcium Channel Blocker in patients with Angina because it may provide them with an alternative treatment that would alleviate the severity of their disease and a better quality of life.
Relevance to NICE guidance How would the answer to this question change future NICE guidance (that is, generate new knowledge and/or evidence)?	This knowledge will help in updating the NICE Guidance in the treatment of Stable Angina.
Relevance to the NHS What would be the impact on the NHS and (where relevant) the public sector of any new or altered guidance (for example, financial advantage, effect on staff, impact on strategic planning or service delivery)?	Providing a better control of Angina would also help in reducing the complications of the disease, GP and Hospital attendance, thereby saving the NHS unnecessary expenditure.
National priorities Is the question relevant to a national priority area (such as a national service framework or white paper)?	This is very relevant to the CHD NHS service Framework and to the current Stable Angina Guidance.

The relevant document should be specified.	
Current evidence base What are the problems with the current evidence base? (that is, why is further research required?) Reference should be made to the section of the full guideline that describes the current evidence base, including details of trials and systematic reviews.	Often newer agents can safely be added to B-Blockers. However, currently, there is no evidence of any trial that has been conducted to elucidate the benefit of adding one of the newer Anti-anginal drugs mentioned before, to a Calcium Channel Blocker.
Equality Does the research recommendation address equality issues? For example, does it focus on groups that need special consideration, or focus on an intervention that is not available for use by people with certain disabilities?	The proposed trial will focus on groups of patients with Angina in whom a second anti-anginal agent is needed and also on those in whom B-Blockers are not tolerated or contraindicated.
Study design It should also specify the most appropriate study design to address the proposed question(s). Primary research or secondary research (for example, systematic reviews) can be recommended.	This will be a primary research and should take the style of Double-blind RCT.
Feasibility Can the proposed research be carried out in a realistic timescale and at an acceptable cost? Are there any ethical or technical issues?	This proposed research can be carried out in 1-2 years at an acceptable cost with the help of the relevant pharmaceutical firms and has to comply with the ethical standards of research in the UK.
Other comments Any other important issues should be mentioned, such as potential funders or outcomes of previous attempts to address this issue or methodological problems. However, this is not a research protocol.	
Importance How important is the question to the overall guideline? The research recommendation should be categorised into one of the following categories of importance:	High Importance
High: the research is essential to inform future updates of key	

recommendations in the guideline

- Medium: the research is relevant to the recommendations in the guideline, but the research recommendations are not key to future updates
- Low: the research is of interest and will fill existing evidence gaps.

1.2 Management of stable angina in people with evidence of ischaemia on non-invasive functional testing

Research question:

Do people with stable angina and evidence of reversible ischaemia on non-invasive functional testing who are on optimal drug treatment benefit from routine coronary angiography with a view to revascularisation?

Why this is important:

Revascularisation has traditionally been offered to people with stable angina who have evidence of reversible ischaemia on non-invasive functional testing. Recent trials in people with stable angina (COURAGE, BARI-2D, MASS II) have not shown survival benefit from revascularisation compared with drug treatment. In the nuclear substudy of COURAGE (n = 314), PCI was shown to be more effective in treating ischaemia than optimal drug treatment, and in multivariate analyses reduction of ischaemia was associated with greater event-free survival. It is unclear, however, whether people on optimal drug treatment who have evidence of inducible ischaemia on non-invasive functional testing should routinely have coronary angiography and revascularisation. This question is particularly relevant for people who have responded adequately (say Canadian Cardiovascular Class 1 or 2) to optimal drug treatment and in whom, based on symptoms alone, revascularisation is not indicated. To answer this question we recommend a randomised trial of interventional management versus continued drug treatment in people with stable angina and myocardial ischaemia on noninvasive functional testing, with all-cause mortality and cardiovascular mortality as the primary endpoints.

Criteria for selecting high-priority research recommendations:

<u>Importance to patients or the population.</u>

What would be the impact on the population of any new or altered guidance? (for example, acceptability to patients, quality of life, morbidity or disease prevalence, severity of disease or mortality).

Uncertainty remains, about whether decisions for cardiac catheterisation in patients on optimal medical treatment should be driven by symptoms alone or by the results of non-invasive ischaemia testing.

Research is aimed to address this

	uncertainty
Relevance to NICE guidance How would the answer to this question change future NICE guidance (that is, generate new knowledge and/or evidence)?	Will inform future updates of key recommendations in the guideline
Relevance to the NHS What would be the impact on the NHS and (where relevant) the public sector of any new or altered guidance (for example, financial advantage, effect on staff, impact on strategic planning or service delivery)?	Identifying the optimal diagnostic procedures required prior to PCI can help optimise resource utilisation within the NHS and minimise variation in clinical practice and outcomes
National priorities Is the question relevant to a national priority area (such as a national service framework or white paper)? The relevant document should be specified.	•
Current evidence base What are the problems with the current evidence base? (that is, why is further research required?) Reference should be made to the section of the full guideline that describes the current evidence base, including details of trials and systematic reviews.	Recent trials that have recruited patients with stable angina (COURAGE, BARI-2D, MASS II), have failed to confirm survival benefit for revascularisation strategies compared with medical treatment. In the nuclear substudy of COURAGE, percutaneous intervention produced more effective resolution of ischaemia than optimal medical treatment but only 314 patients were recruited and risk-adjusted mortality was similar for the two groups.
Equality Does the research recommendation address equality issues? For example, does it focus on groups that need special consideration, or focus on an intervention that is not available for use by people with certain disabilities?	
Study design It should also specify the most appropriate study design to address the proposed question(s). Primary research or secondary research (for example, systematic reviews) can be recommended.	The question is particularly relevant in the group of patients that has responded adequately (say CCS class 1 or 2) to optimal medical treatment in whom revascularisation on symptomatic grounds is not indicated. To answer the question in this group we recommend a randomised trial of interventional versus continuing

	medical management in with all cause and cardiovascular mortality as the primary endpoints.
Feasibility Can the proposed research be carried out in a realistic timescale and at an acceptable cost? Are there any ethical or technical issues?	
Other comments Any other important issues should be mentioned, such as potential funders or outcomes of previous attempts to address this issue or methodological problems. However, this is not a research protocol.	
Importance How important is the question to the overall guideline? The research recommendation should be categorised into one of the following categories of importance:	High importance.
 High: the research is essential to inform future updates of key recommendations in the guideline 	
 Medium: the research is relevant to the recommendations in the guideline, but the research recommendations are not key to future updates 	
 Low: the research is of interest and will fill existing evidence gaps. 	

1.3 Early revascularisation strategy for people with angina and multivessel disease

Research question:

In people with stable angina and multivessel disease (including left main stem [LMS] disease) whose symptoms are controlled with optimal drug treatment, would an initial treatment strategy of revascularisation be clinically and cost effective compared with continued drug treatment?

Why this is important:

Research is needed to determine whether early investigation and revascularisation can improve longer term survival. People with stable angina may be disadvantaged if they do not have tests to identify whether they have a higher risk profile for early cardiac death, which could be reduced by revascularisation. This disadvantage could be magnified when people who are deemed to fall into very high risk groups (for example, LMS stenosis > 50% in the MASS II trial) are excluded from randomised trials, resulting in the benefits of revascularisation being underestimated. We propose a randomised trial comparing an initial strategy of revascularisation (PCI or CABG) with an initial strategy of continued drug treatment in people with multivessel disease (including LMS disease) in whom revascularisation is not needed for symptom relief. The trial should use drug-eluting stents and wider inclusion criteria than BARI-2D and COURAGE.

Criteria for selecting high-priority research recommendations:

Importance to patients or the population. What would be the impact on the population of any new or altered guidance? (for example, acceptability to patients, quality of life, morbidity or disease prevalence, severity of disease or mortality).	Potentially improved survival, fewer myocardial infarctions, and fewer hospitalisations for repeat interventions
Relevance to NICE guidance How would the answer to this question change future NICE guidance (that is, generate new knowledge and/or evidence)?	Could significantly change the recommendations by encouraging earlier investigation or provide a reliable evidence base for not doing so.
Relevance to the NHS What would be the impact on the NHS and (where relevant) the public sector of any new or altered guidance (for example, financial advantage, effect on staff, impact on strategic planning or service delivery)?	Advancing the treatment of coronary artery disease to the highest international standards.
National priorities Is the question relevant to a national priority area (such as a national service framework or white paper)? The relevant document should be specified.	Contributes to implementation of the NSF for Coronary Heart Disease
Current evidence base What are the problems with the current evidence base? (that is, why is further research required?) Reference	This question has not been formally addressed leaving a significant gap in the evidence base.

should be made to the section of the full guideline that describes the current evidence base, including details of trials and systematic reviews.	
Equality Does the research recommendation address equality issues? For example, does it focus on groups that need special consideration, or focus on an intervention that is not available for use by people with certain disabilities?	Current practice for investigation of stable coronary disease is patchy and a reliable evidence base would improve equality of care
Study design It should also specify the most appropriate study design to address the proposed question(s). Primary research or secondary research (for example, systematic reviews) can be recommended.	A randomised study of patients in primary and secondary care whose symptoms are apparently adequately controlled with medication
Feasibility Can the proposed research be carried out in a realistic timescale and at an acceptable cost? Are there any ethical or technical issues?	No major stumbling blocks evident.
Other comments Any other important issues should be mentioned, such as potential funders or outcomes of previous attempts to address this issue or methodological problems. However, this is not a research protocol.	
Importance How important is the question to the overall guideline? The research recommendation should be categorised into one of the following categories of importance:	High
 High: the research is essential to inform future updates of key recommendations in the guideline 	
 Medium: the research is relevant to the recommendations in the guideline, but the research recommendations are not key to future updates 	
• Low: the research is of interest and	

will fill existing evidence gaps.	

1.4 Cardiac Rehabilitation

Research question:

Is an 8-week, comprehensive, multidisciplinary, cardiac rehabilitation service more clinically and cost effective for managing stable angina than current clinical practice?

Why this is important:

Cardiac rehabilitation programmes are an established treatment strategy for certain heart conditions, such as for people who have had a heart attack. However, there is no evidence to suggest that cardiac rehabilitation is clinically or cost effective for managing stable angina. Research to date has looked at short-term outcomes, such as a change in diet or exercise levels, but the effect on morbidity and mortality has not been studied. A randomised controlled trial is required to compare comprehensive cardiac rehabilitation with standard care in people with stable angina, with measures of angina severity (exercise capacity, angina frequency, use of a short-acting nitrate), and long-term morbidity and mortality as endpoints.

Criteria for selecting high-priority research recommendations:

Importance to patients or the population. What would be the impact on the population of any new or altered guidance? (for example, acceptability to patients, quality of life, morbidity or disease prevalence, severity of disease or mortality).	It would help optimise and standardise care for patients with stable angina and reduce variation. It would provide a structured comprehensive MDT service accessible to stable angina patients.
Relevance to NICE guidance How would the answer to this question change future NICE guidance (that is, generate new knowledge and/or evidence)?	There is no comprehensive evidence base currently.
Relevance to the NHS What would be the impact on the NHS and (where relevant) the public sector of any new or altered guidance (for example, financial advantage, effect on staff, impact on strategic planning or service delivery)?	Identifying whether CR is clinically and cost effective for patients with stable angina, will help determine pathways for stable angina patients that will standardise their care, and reduce variation.
National priorities Is the question relevant to a national priority area (such as a national	The NSF for CHD was unable to clarify if CR was appropriate for stable angina patients; Consequently this research work

service framework or white paper)? The relevant document should be specified.	could provide structure to National Frameworks.
Current evidence base What are the problems with the current evidence base? (that is, why is further research required?) Reference should be made to the section of the full guideline that describes the current evidence base, including details of trials and systematic reviews.	There is no evidence that evaluates the whole package that CR could potentially provide.
Equality Does the research recommendation address equality issues? For example, does it focus on groups that need special consideration, or focus on an intervention that is not available for use by people with certain disabilities?	Research can address equality issues e.g. evidence can minimise variation in the management and resulting outcomes for stable angina patients
Study design It should also specify the most appropriate study design to address the proposed question(s). Primary research or secondary research (for example, systematic reviews) can be recommended.	Previous studies that have looked at aspects of cardiac rehabilitation to angina patients, have been small, with only short term follow up. Therefore it is suggested that a Randomised Control Study, with follow up at 5 years, will help to address this gap. Sample groups should be greater than 100.
Feasibility Can the proposed research be carried out in a realistic timescale and at an acceptable cost? Are there any ethical or technical issues?	There is a large stable angina population across the UK as well as numerous establishments that currently provide CR services to stable angina patients.
Other comments Any other important issues should be mentioned, such as potential funders or outcomes of previous attempts to address this issue or methodological problems. However, this is not a research protocol.	The University of Glamorgan has supported a similar research project that addressed the issue of Heart Failure and CR; they may consider supporting this research. The British Heart Foundation may be a potential supporter
Importance How important is the question to the overall guideline? The research recommendation should be categorised into one of the following categories of importance:	Medium to high importance.

- High: the research is essential to inform future updates of key recommendations in the guideline
- Medium: the research is relevant to the recommendations in the guideline, but the research recommendations are not key to future updates
- Low: the research is of interest and will fill existing evidence gaps.

1.5 Patient self-management plans

Research question:

What is the clinical and cost effectiveness of a self-management plan for people with stable angina?

Why this is important:

Stable angina is a chronic condition. Evidence suggests that addressing people's beliefs and behaviours in relation to angina may improve quality of life, and reduce morbidity and use of resources. Self-management plans could include: educating people with stable angina about the role of psychological factors in pain and pain control; and teaching people self-management skills to modify cognitions, behaviours and affective responses in order to control chest pain. These skills may include pacing of physical activities, modifying stress using cognitive reframing and problem-solving techniques, and relaxation training or mindfulness techniques. The proposed study is a randomised controlled trial in primary care that would assess the clinical and cost effectiveness of self-management plans. This research would inform future updates of key recommendations in the guideline. Furthermore the research would be relevant to a national priority area (National service framework for coronary heart disease [NSF CHD] chapter 4: stable angina and chapter 7: cardiac rehabilitation) as well as the Coalition White Paper 2010 (Equity and excellence: liberating the NHS) that emphasize the importance of increasing people's choice and control in managing their condition.

Criteria for selecting high-priority research recommendations:

Importance to patients or the population.

What would be the impact on the population of any new or altered guidance? (for example, acceptability to patients, quality of life, morbidity or disease prevalence, severity of disease or mortality).

Improved quality of life

Improved survival

Less use of medication

Reduced side effects of medication and

	coronary intervention(PCI and CABG)
Relevance to NICE guidance	
How would the answer to this question change future NICE guidance (that is, generate new knowledge and/or evidence)?	It would strengthen the evidence for such a plan. If cost effective it would need to be cheaper in resource terms than the status quo ie no effective self management plan in place
Relevance to the NHS What would be the impact on the NHS and (where relevant) the public sector of any new or altered guidance (for example, financial advantage, effect on staff, impact on strategic planning or service delivery)?	It should apply to all stable angina patients whether being seen in primary secondary or tertiary care
National priorities Is the question relevant to a national priority area (such as a national service framework or white paper)? The relevant document should be specified.	NSF CHD chapters 4 (stable angina) and chapter 7 (cardiac rehabilitation) Coalition White Paper 2010: Equity and excellence: Liberating the NHS: Putting patients and public first: We will put patients at the heart of the NHS, through an information revolution and greater choice and control: Shared decision-making will become the norm: no decision about me without me. Patients will have access to the information they want, to make choices about their care. They will have increased control over their own care records.
Current evidence base What are the problems with the current evidence base? (that is, why is further research required?) Reference should be made to the section of the full guideline that describes the current evidence base, including details of trials and systematic reviews.	No UK based studies No primary care based studies No RCTs
Equality Does the research recommendation address equality issues? For example, does it focus on groups that need	Covers all patients

Τ
RCT with health economics analysis
RCT in primary care
High

1 Declarations of interests

1.1 Introduction

All members of the GDG and all members of the NCGC staff were required to make formal declarations of interest at the outset of each meeting, and these were updated at every subsequent meeting throughout the development process. No interests were declared that required actions.

2 STABLE ANGINA

1.2 Declarations of interests of the GDG members

1.2.1 Sotiris Antoniou

GDG meeting	Declaration of Interests
GDG Application	No interests to declare
First GDG meeting (10th July 2009)	No change in declaration
Second GDG Meeting (04th September 2009)	No change in declaration
Third GDG Meeting (14th October 2009)	No change in declaration
Fourth GDG Meeting (27th November 2009)	No change in declaration
Fifth GDG Meeting (13th January 2010)	No change in declaration
Sixth GDG Meeting (26th February 2010)	SA declared the following item of personal pecuniary interest: • Attended a study event (state of the heart) which was sponsored by Astra Zeneca; The event was unrelated to stable angina and any of the drugs associated with stable angina
Seventh GDG Meeting (26 th March 2010)	 SA declared the following item of personal pecuniary interest: Receipt of honoraria for participation in an Advisory Board for Astra Zeneca for a drug unrelated to stable angina.
Eighth GDG Meeting (14 th May 2010)	 SA declared the following item of personal pecuniary interest: Receipt of honorarium from GSK for presentation on a drug unrelated to the treatment of stable angina Receipt of honoraria for participation in an Advisory Board for Bayer for a drug unrelated to stable angina.
Ninth GDG Meeting (18th June 2010)	No change in declaration
Tenth GDG Meeting (23 rd July 2010)	No change in declaration
Eleventh GDG Meeting (08th September 2010)	SA declared the following item of personal pecuniary interest : • Receipt of honoraria for participation in an Advisory Board on the development of an Integrated Care Pathway unrelated to Stable angina sponsored by Chiesi.
Twelfth GDG Meeting (22 nd October 2010)	SA declared the following item of personal pecuniary interest : • Presented at HRC meeting and was sponsored by Sanofi Aventis
Thirteenth GDG Meeting (4th March 2011)	No change in declaration

1.2.2 Christopher Blauth

GDG meeting	Declaration of Interests
GDG Application	No interests to declare
First GDG meeting (10th July 2009)	No change in declaration
Second GDG Meeting (04th September 2009)	No change in declaration
Third GDG Meeting (14th October 2009)	No change in declaration
Fourth GDG Meeting (27th November 2009)	No change in declaration

GDG meeting	Declaration of Interests
Fifth GDG Meeting (13th January 2010)	No change in declaration
Sixth GDG Meeting (26th February 2010)	No change in declaration
Seventh GDG Meeting (26 th March 2010)	No change in declaration
Eighth GDG Meeting (14 th May 2010)	No change in declaration
Ninth GDG Meeting (18th June 2010)	No change in declaration
Tenth GDG Meeting (23 rd July 2010)	No change in declaration
Eleventh GDG Meeting (08th September 2010)	No change in declaration
Twelfth GDG Meeting (22 nd October 2010)	No change in declaration
Thirteenth GDG Meeting (4th March 2011)	No change in declaration

1.2.3 Liz Clark

GDG meeting	Declaration of Interests
GDG Application	No interests to declare
First GDG meeting (10 th July 2009)	LC declared the following item of personal pecuniary interest: Will be undertaking 3 or 4 days work for Mid Devon PCT to help them set up a structure for patient involvement and will be paid a small fee
Second GDG Meeting (04th September 2009)	No change in declaration
Third GDG Meeting (14th October 2009)	No change in declaration
Fourth GDG Meeting (27th November 2009)	No change in declaration
Fifth GDG Meeting (13th January 2010)	No change in declaration
Sixth GDG Meeting (26th February 2010)	No change in declaration
Seventh GDG Meeting (26th March 2010)	No change in declaration
Eighth GDG Meeting (14 th May 2010)	No change in declaration
Ninth GDG Meeting (18th June 2010)	No change in declaration
Tenth GDG Meeting (23 rd July 2010)	No change in declaration
Eleventh GDG Meeting (08th September 2010)	No change in declaration
Twelfth GDG Meeting (22 nd October 2010)	Will be a Lay Representative on the Scottish Computed Tomography of the Heart Trail as from Wednesday 13th October, 2010
Thirteenth GDG Meeting (4th March 2011)	No change in declaration

4 STABLE ANGINA

1.2.4 Kevin Fox

GDG meeting	Declaration of Interests
GDG Application	No interests to declare
First GDG meeting (10th July 2009)	No change in declaration
Second GDG Meeting (04th September 2009)	No change in declaration
Third GDG Meeting (14th October 2009)	No change in declaration
Fourth GDG Meeting (27th November 2009)	No change in declaration
Fifth GDG Meeting (13th January 2010)	No change in declaration
Sixth GDG Meeting (26th February 2010)	No change in declaration
Seventh GDG Meeting (26 th March 2010)	No change in declaration
Eighth GDG Meeting (14 th May 2010)	No change in declaration
Ninth GDG Meeting (18th June 2010)	No change in declaration
Tenth GDG Meeting (23 rd July 2010)	No change in declaration
Eleventh GDG Meeting (08th September 2010)	 KF declared the following item of personal pecuniary interest: Accepted invitation by Servier to comment on the recent trial of its ivabradine in heart failure at an upcoming industry sponsored meeting
	As a result it was agreed that KF will not participate in any further discussions on pharmacological interventions in stable angina.
Twelfth GDG Meeting (22 nd October 2010)	No change in declaration
Thirteenth GDG Meeting (4 th March 2011)	No change in declaration

1.2.5 Robert Henderson

GDG meeting	Declaration of Interests
GDG Application	RH declared the following item of personal pecuniary interest :
	 Receipt of honoraria for participation in Advisory Boards for two stent manufacturers (Cordis and Abbott)
	RH declared the following item of personal non-pecuniary interest :
	 Elected member of the British Cardiovascular Intervention Society council; Has contributed to the conduct of randomised trials of percutaneous coronary intervention in the management of patients with angina an coronary artery disease

GDG meeting	Declaration of Interests
First GDG meeting (10th July 2009)	No change in declaration
Second GDG Meeting (04th September 2009)	No change in declaration
Third GDG Meeting (14th October 2009)	No change in declaration
Fourth GDG Meeting (27 th November 2009)	RH declared the following item of personal pecuniary interest : • Receipt of honorarium from Pfizer and Lilly UK for presentations on treatment of ACS
Fifth GDG Meeting (13th January 2010)	 Author of 1 of the 32 papers reviewed; however this would not result to bias as his publication referred to an older trial of limited value to today's relative merits of PCI vs CABG
Sixth GDG Meeting (26 th February 2010)	 RH declared the following items of personal pecuniary interest: Receipt of honorarium for participation in conference (PPCI challenge, Manchester) sponsored by Lilly UK, Daichii-Sankyo UK Ltd and Boston Scientific Receipt of honorarium for participation in conference (ACS challenge, Manchester) sponsored by Pfizer and Lilly UK
Seventh GDG Meeting (26 th March 2010)	No change in declaration
Eighth GDG Meeting (14 th May 2010)	 RH declared the following item of personal pecuniary interest: Receipt of honorarium for participation in a GSK-sponsored meeting on the NICE UA/NSTEMI guideline RH declared the following items of personal non-pecuniary interest: Participation in a Lilly/Boston Scientific/Edwards sponsored meeting and in a meeting of the British Cardiovascular Intervention Society on the NICE UA/NSTEMI guideline. No honorarium was received for either of these presentations
Ninth GDG Meeting (18th June 2010)	RH declared the following item of personal pecuniary interest : • Sponsorship by Boston Scientific to attend EuroPCR (May 2010) conference
Tenth GDG Meeting (23 rd July 2010)	No change in declaration
Eleventh GDG Meeting (08th September 2010)	No change in declaration
Twelfth GDG Meeting (22 nd October 2010)	 RH declared the following item of personal pecuniary interest: Sponsored by Edwards Life Science to attend EuroPCR Valve Live meeting (11th to 12th October 2010)

6 STABLE ANGINA

GDG meeting	Declaration of Interests
Thirteenth GDG Meeting (4th March 2011)	 RH declared the following item of personal non-pecuniary interest: Attendance at the 'Cardiology and Diabetes at the Limits' Conference on 25–28 Feb 2011; sponsored by Pfizer Ltd, F.Hoffman-La Roche Ltd, Novo Nordisk, AstraZenica South Africa, Medtronic Ltd, Saiichi-Sankyo/Lilly UK, Sanofi-Aventis, Lilly UK Ltd.

1.2.6 Leonard Jacob

GDG meeting	Declaration of Interests
GDG Application	No interests to declare
First GDG meeting (10th July 2009)	No change in declaration
Second GDG Meeting (04th September 2009)	No change in declaration
Third GDG Meeting (14th October 2009)	No change in declaration
Fourth GDG Meeting (27th November 2009)	No change in declaration
Fifth GDG Meeting	LJ declared the following item of personal pecuniary interest:
(13 th January 2010)	 Attended a meeting organised by B.l. in November 2009 on "Anticoagulation for the management of Atrial Fibrilation"
Sixth GDG Meeting (26th February 2010)	No change in declaration
Seventh GDG Meeting (26 th March 2010)	No change in declaration
Eighth GDG Meeting (14th May 2010)	No change in declaration
Ninth GDG Meeting (18th June 2010)	No change in declaration
Tenth GDG Meeting (23 rd July 2010)	No change in declaration
Eleventh GDG Meeting (08th September 2010)	No change in declaration
Twelfth GDG Meeting (22 nd October 2010)	No change in declaration
Thirteenth GDG Meeting (4th March 2011)	No change in declaration

1.2.7 Aidan Mac Dermott

GDG meeting	Declaration of Interests
GDG Application	No interests to declare
First GDG meeting (10th July 2009)	No change in declaration
Second GDG Meeting (04th September 2009)	No change in declaration
Third GDG Meeting (14th October 2009)	No change in declaration
Fourth GDG Meeting (27th November 2009)	No change in declaration

GDG meeting	Declaration of Interests
Fifth GDG Meeting (13th January 2010)	No change in declaration
Sixth GDG Meeting (26th February 2010)	No change in declaration
Seventh GDG Meeting (26 th March 2010)	No change in declaration
Eighth GDG Meeting (14 th May 2010)	AD declared the following item of personal pecuniary interest : • Received a British Cardiovascular Society (BCS) travel training grant of £100 to attend BCS annual conference; This grant was supported by MSD and Servier
Ninth GDG Meeting (18th June 2010)	No change in declaration
Tenth GDG Meeting (23 rd July 2010)	No change in declaration
Eleventh GDG Meeting (08th September 2010)	No change in declaration
Twelfth GDG Meeting (22 nd October 2010)	No change in declaration
Thirteenth GDG Meeting (4th March 2011)	No change in declaration

1.2.8 Helen O'Leary

GDG meeting	Declaration of Interests
GDG Application	No interests to declare
First GDG meeting (10th July 2009)	No change in declaration
Second GDG Meeting (04th September 2009)	No change in declaration
Third GDG Meeting (14th October 2009)	No change in declaration
Fourth GDG Meeting (27th November 2009)	No change in declaration
Fifth GDG Meeting (13th January 2010)	No change in declaration
Sixth GDG Meeting (26th February 2010)	No change in declaration
Seventh GDG Meeting (26 th March 2010)	No change in declaration
Eighth GDG Meeting (14 th May 2010)	No change in declaration
Ninth GDG Meeting (18th June 2010)	No change in declaration
Tenth GDG Meeting (23 rd July 2010)	No change in declaration
Eleventh GDG Meeting (08th September 2010)	No change in declaration
Twelfth GDG Meeting (22 nd October 2010)	 HOL declared the following item of personal pecuniary interest: Received a travel training grant by Servier to attend a training event
Thirteenth GDG Meeting (4th March 2011)	No change in declaration

8 STABLE ANGINA

1.2.9 Charles Peebles

GDG meeting	Declaration of Interests
GDG Application	No interests to declare
First GDG meeting (10th July 2009)	No change in declaration
Second GDG Meeting (04th September 2009)	No change in declaration
Third GDG Meeting (14th October 2009)	No change in declaration
Fourth GDG Meeting (27th November 2009)	No change in declaration
Fifth GDG Meeting (13th January 2010)	No change in declaration
Sixth GDG Meeting (26th February 2010)	No change in declaration
Seventh GDG Meeting (26th March 2010)	No change in declaration
Eighth GDG Meeting (14 th May 2010)	No change in declaration
Ninth GDG Meeting (18th June 2010)	No change in declaration
Tenth GDG Meeting (23 rd July 2010)	No change in declaration
Eleventh GDG Meeting (08th September 2010)	No change in declaration
Twelfth GDG Meeting (22 nd October 2010)	No change in declaration
Thirteenth GDG Meeting (4th March 2011)	No change in declaration

1.2.10 Maurice Pye

GDG meeting	Declaration of Interests
GDG Application	No interests to declare
First GDG meeting (10th July 2009)	No change in declaration
Second GDG Meeting (04th September 2009)	No change in declaration
Third GDG Meeting (14th October 2009)	No change in declaration
Fourth GDG Meeting (27th November 2009)	No change in declaration
Fifth GDG Meeting (13th January 2010)	No change in declaration
Sixth GDG Meeting (26 th February 2010)	 MP declared the following item of personal pecuniary interest: Receipt of honorarium (£350) paid by Pfizer for speaking at meeting on Statins in Feb 2010
Seventh GDG Meeting (26th March 2010)	No change in declaration
Eighth GDG Meeting (14 th May 2010)	MP declared the following item of personal non-pecuniary interest: Co-author of a paper on cardiac rehabilitation in angina Therefore MP did not participate in the drafting of recommendations on the topic

GDG meeting	Declaration of Interests
Ninth GDG Meeting (18th June 2010)	No change in declaration
Tenth GDG Meeting (23 rd July 2010)	No change in declaration
Eleventh GDG Meeting (08th September 2010)	No change in declaration
Twelfth GDG Meeting (22 nd October 2010)	 MP declared the following item of personal pecuniary interest: Receipt of honoraria by AstraZeneca and Pfizer for speaking at a conference (Oct 2010)
Thirteenth GDG Meeting (4th March 2011)	No change in declaration

1.2.11 Jonathan Shribman

GDG meeting	Declaration of Interests
GDG Application	No interests to declare
First GDG meeting (10th July 2009)	No change in declaration
Second GDG Meeting (04th September 2009)	No change in declaration
Third GDG Meeting (14 th October 2009)	No change in declaration
Fourth GDG Meeting (27th November 2009)	No change in declaration
Fifth GDG Meeting (13th January 2010)	No change in declaration
Sixth GDG Meeting (26th February 2010)	No change in declaration
Seventh GDG Meeting (26 th March 2010)	No change in declaration
Eighth GDG Meeting (14 th May 2010)	No change in declaration
Ninth GDG Meeting (18th June 2010)	No change in declaration
Tenth GDG Meeting (23 rd July 2010)	No change in declaration
Eleventh GDG Meeting (08th September 2010)	No change in declaration
Twelfth GDG Meeting (22 nd October 2010)	No change in declaration
Thirteenth GDG Meeting (4th March 2011)	No change in declaration

10 STABLE ANGINA

1.2.12 Roger Till

GDG meeting	Declaration of Interests
GDG Application	No interests to declare
First GDG meeting (10 th July 2009)	RT declared the following item of non-personal pecuniary interest: • Member of the Patient Participation Group (PPG) at the Lawson General Practice (Nuttall Street, Hackney London): The PPG has just received an Award of £3000 from the Royal College of General Practitioners to support some of the development of a Patient Information Centre at the Practice
Second GDG Meeting (04th September 2009)	No change in declaration
Third GDG Meeting (14th October 2009)	No change in declaration
Fourth GDG Meeting (27th November 2009)	No change in declaration
Fifth GDG Meeting (13th January 2010)	No change in declaration
Sixth GDG Meeting (26th February 2010)	No change in declaration
Seventh GDG Meeting (26th March 2010)	No change in declaration
Eighth GDG Meeting (14 th May 2010)	No change in declaration
Ninth GDG Meeting (18th June 2010)	No change in declaration
Tenth GDG Meeting (23 rd July 2010)	No change in declaration
Eleventh GDG Meeting (08th September 2010)	No change in declaration
Twelfth GDG Meeting (22 nd October 2010)	RT declared the following item of non-personal non-pecuniary interest: • Appointed as a Trustee of N.A.P.P. (National Association for Patient Participation)
Thirteenth GDG Meeting (4th March 2011)	No change in declaration

1.2.13 Professor Adam Timmis

GDG meeting	Declaration of Interests
GDG Application	AT declared the following items of non-personal pecuniary interest: Siemens sponsors his cardiac research fellow at London Chest Hospital (until June 2009) NIHR Programme Grant RP-PG-0407-10314 (£1.8M 2008-2012): Improving the quality of care of patients with angina and heart attack AT declared the following items of personal non-pecuniary interest: Conduct of research into the investigation and management of angina

GDG meeting	Declaration of Interests
First GDG meeting (10 th July 2009)	 AT declared the following items of non-personal pecuniary interest: Research grant (£1.2m 2008-2012) by Welcome Trust: Insights into CVD from linking datasets (Hemingway H, Hingorani A, Smeeth L, Kivimaki M, Kalra D, Timmis A.) NIHR Biomedical Research Unit Grant to develop an academic department of cardiovascular imaging which includes MSCT; Grant includes capital funding for purchase of a new MSCT scanner AT declared the following item of personal pecuniary interest: Ad hoc participation in advisory board for Pfizer (5/04/2009) to discuss statin prescribing in the UK, for which an honorarium was received. No further meetings of this board have taken place
Second GDG Meeting (04 th September 2009)	No change in declaration
Third GDG Meeting (14 th October 2009)	AT declared the following items of personal non-pecuniary interest: Author on a Ranolazine paper published in the European Heart Journal (2008) Investigator in the BEAUTIFUL study published in the Lancet (2008)
Fourth GDG Meeting (27th November 2009)	 AT declared the following item of non-personal pecuniary interest: Research funded by Welcome Trust and NIHR: Electronic records to investigate causes and prognosis of chest pain and MI AT declared the following item of personal non-pecuniary interest: UK representative for the QUIET trial for ACE inhibitors
Fifth GDG Meeting (13th January 2010)	No change in declaration
Sixth GDG Meeting (26 th February 2010)	No change in declaration
Seventh GDG Meeting (26 th March 2010)	No change in declaration
Eighth GDG Meeting (14 th May 2010)	No change in declaration
Ninth GDG Meeting (18th June 2010)	AT declared the following item of non-personal pecuniary interest: Entered discussions with Servier on the funding of academic research project on the valuation of an intervention in chest pain clinics
Tenth GDG Meeting (23 rd July 2010)	No change in declaration
Eleventh GDG Meeting (08th September 2010)	No change in declaration
Twelfth GDG Meeting (22 nd October 2010)	No change in declaration
Thirteenth GDG Meeting (4th March 2011)	No change in declaration

12 STABLE ANGINA

1.3 Declarations of interests of the NCGC members

GDG meeting	Declaration of Interests of the NCC-AC members
First GDG meeting (10th July 2009)	No interests to declare
Second GDG Meeting (04th September 2009)	No change in declaration
Third GDG Meeting (14th October 2009)	No change in declaration
Fourth GDG Meeting (27th November 2009)	No change in declaration
Fifth GDG Meeting (13th January 2010)	No change in declaration
Sixth GDG Meeting (26th February 2010)	No change in declaration
Seventh GDG Meeting (26 th March 2010)	No change in declaration
Eighth GDG Meeting (14 th May 2010)	No change in declaration
Ninth GDG Meeting (18th June 2010)	No change in declaration
Tenth GDG Meeting (23 rd July 2010)	No change in declaration
Eleventh GDG Meeting (08th September 2010)	No change in declaration
Twelfth GDG Meeting (22 nd October 2010)	No change in declaration
Thirteenth GDG Meeting (4th March 2011)	No change in declaration

APPENDIX K

Additional analysis for the economic model – PCI vs. CABG

1. Free of angina – 6 months

	PCI		CAB	G		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95%	CI M-H, Fixed, 95% CI
Unger 2003 (ARTS)	119	138	121	142	100.0%	1.01 [0.92, 1.11	1
Total (95% CI)		138		142	100.0%	1.01 [0.92, 1.11]	,
Total events	119		121				
Heterogeneity: Not app							0.01 0.1 1 10 100
Test for overall effect:	Z = 0.24 (P = 0.8	1)				Favours experimental Favours control

2. Death (all causes) – 1 year

	PCI		CAB	G		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% C	M-H, Fixed, 95% CI
ARTS 2001	15	600	17	605	26.2%	0.89 [0.45, 1.77]	
Eefting 2003	0	138	4	142	6.9%	0.11 [0.01, 2.10]	-
Hueb 2004 (MASS II)	9	205	8	203	12.4%	1.11 [0.44, 2.83]	
LEMANS 2008	1	52	0	52	0.8%	3.00 [0.13, 71.99]	-
SoS 2002	12	488	4	500	6.1%	3.07 [1.00, 9.46]	-
SYNTAX 2009	39	891	30	849	47.6%	1.24 [0.78, 1.98]	*
Total (95% CI)		2374		2351	100.0%	1.18 [0.85, 1.64]	•
Total events	76		63				
Heterogeneity: Chi ² = 6.	.29, df = 5	(P = 0.	28); $I^2 = 2$	21%			
Test for overall effect: Z	t = 1.00 (P)	= 0.32)				0.01 0.1 1 10 100 Favours PCI Favours CABG

3. MI – 1 year

	PCI		CAB	G		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% CI
ARTS 2001	37	600	29	605	28.3%	1.29 [0.80, 2.06]	- ■-
Eefting 2003	6	138	7	142	6.8%	0.88 [0.30, 2.56]	
Hueb 2004 (MASS II)	16	205	4	203	3.9%	3.96 [1.35, 11.64]	
SoS 2002	21	488	34	500	32.9%	0.63 [0.37, 1.07]	
SYNTAX 2009	43	891	28	849	28.1%	1.46 [0.92, 2.33]	 -
Total (95% CI)		2322		2299	100.0%	1.20 [0.93, 1.55]	*
Total events	123		102				
Heterogeneity: Chi ² = 11	1.42, df = 4	4(P=0)	0.02); I ² =	65%			0.01 0.1 1 10 100
Test for overall effect: Z	= 1.39 (P	= 0.17)				Favours PCI Favours CABG

4. Repeat revascularisation -1 year

	PCI		CAB	G		Risk Ratio	Risk	Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% C	M-H, Fix	ed, 95% CI
ARTS 2001	126	600	23	605	26.6%	5.52 [3.59, 8.49]		-
Eefting 2003	21	138	6	142	6.9%	3.60 [1.50, 8.65]		
Hueb 2004 (MASS II)	25	205	1	203	1.2%	24.76 [3.39, 180.98]		
LEMANS 2008	15	52	5	53	5.8%	3.06 [1.20, 7.80]		_ -
SYNTAX 2009	120	891	50	849	59.6%	2.29 [1.67, 3.14]		=
Total (95% CI)		1886		1852	100.0%	3.55 [2.82, 4.47]		•
Total events	307		85					
Heterogeneity: Chi ² = 15	5.24, df =	4 (P = 0)	0.004); I ²	= 74%			0.01 0.1	1 10 100
Test for overall effect: Z	= 10.75 (P < 0.0	0001)					Favours CABG

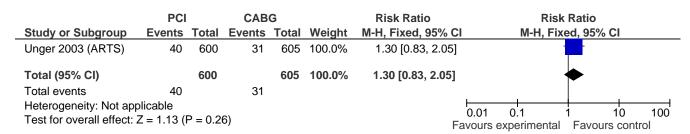
5. Free of angina – 1 year

	PCI	CABG		Risk Ratio	Risk Ratio
Study or Subgroup	Events Tota	I Events Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% CI
ARTS 2001	473 600	541 605	46.6%	0.88 [0.84, 0.93]	•
Eefting 2003	108 138	3 120 142	10.2%	0.93 [0.83, 1.04]	+
Hueb 2004 (MASS II)	107 205	120 203	10.4%	0.88 [0.74, 1.05]	+
SoS 2002	309 47°	387 493	32.7%	0.84 [0.77, 0.91]	•
Total (95% CI)	1414	1443	100.0%	0.87 [0.84, 0.91]	•
Total events	997	1168			
Heterogeneity: Chi ² = 2.	.40, $df = 3 (P = $	0.49); I ² = 0%			0.01 0.1 1 10 100
Test for overall effect: Z	t = 6.60 (P < 0.0)	0001)			Favours PCI Favours CABG

6. Death (all causes) - 2 years

	PCI		CAB	G		Risk Ratio	Risk	Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fix	ed, 95% CI
Booth 2008 (SOS)	22	488	8	500	26.5%	2.82 [1.27, 6.27]		
Unger 2003 (ARTS)	17	600	22	605	73.5%	0.78 [0.42, 1.45]	-	_
Total (95% CI)		1088		1105	100.0%	1.32 [0.83, 2.11]		•
Total events	39		30					
Heterogeneity: Chi ² = 6	6.21, df = 1	(P = 0)	0.01); I ² =	84%			0.01 0.1	1 10 100
Test for overall effect: 2	Z = 1.16 (P	= 0.25	5)			Fa	0.0.	

7. MI – 2 years



8. Repeat revascularisation - 2 years

	PCI		CAB	G		Risk Ratio	Risk Ratio
Study or Subgroup	Events 7	Total	Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% CI
ARTS 2003	160	600	37	605	64.0%	4.36 [3.11, 6.12]	-
SoS 2002	93	488	21	500	36.0%	4.54 [2.87, 7.16]	-
Total (95% CI)	1	1088		1105	100.0%	4.42 [3.37, 5.81]	•
Total events	253		58				
Heterogeneity: Chi ² = 0 Test for overall effect:		•	, .	0%			0.01 0.1 1 10 100 Favours PCI Favours CABG

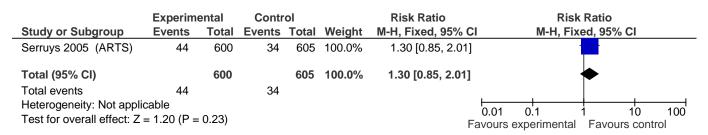
9. Free of angina – 2 years

	Experim	ental	Contr	ol		Risk Ratio	Ri	sk Ratio	
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% C	I M-H, F	ixed, 95% CI	
ARTS 2003	465	583	508	583	100.0%	0.92 [0.87, 0.96]			
Total (95% CI)		583		583	100.0%	0.92 [0.87, 0.96]		•	
Total events	465		508						
Heterogeneity: Not app) -				0.01 0.1	1 10	100
Test for overall effect:	Z = 3.37 (F	' = 0.000	J7)			Fa	avours experiment	al Favours cor	ntrol

10. Death (all causes) - 3 years

	Experim	ental	Contr	ol		Risk Ratio		Risk	Ratio	
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% (CI	M-H, Fix	ed, 95% CI	
Serruys 2005 (ARTS)	22	600	28	605	100.0%	0.79 [0.46, 1.37]]	-	-	
Total (95% CI)		600		605	100.0%	0.79 [0.46, 1.37]	l	◀		
Total events	22		28							
Heterogeneity: Not appli Test for overall effect: Z		= 0.40)				ı	0.01 Favours	0.1 experimental	1 10 Favours cor	100

11. MI - 3 years



12. Repeat revascularisation - 3 years

	Experim	ental	Contr	ol		Risk Ratio		Ris	k Ratio	0	
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95%	CI	M-H, Fi	xed, 9	5% CI	
Serruys 2005 (ARTS)	160	600	40	605	100.0%	4.03 [2.91, 5.60)]				
Total (95% CI)		600		605	100.0%	4.03 [2.91, 5.60)]			♦	
Total events	160		40								
Heterogeneity: Not appl Test for overall effect: Z		: 0.0000	1)				0.01 Favours	0.1 experimenta	1 I Fav	10 ours cont	100

13. Free of angina – 3 years

	Experim	ental	Contr	ol		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% C	M-H, Fixed, 95% CI
Legrand 2004 (ARTS)	490	600	528	605	100.0%	0.94 [0.89, 0.98]	
Total (95% CI)		600		605	100.0%	0.94 [0.89, 0.98]	•
Total events	490		528				
Heterogeneity: Not appli	cable						0.01 0.1 1 10 100
Test for overall effect: Z	= 2.68 (P =	= 0.007)				F	0.01 0.1 1 10 100 Sayours experimental Favours control

14. Death (all causes) – 5 years

	PCI	CI CABG			Risk Ratio	Risk Ratio	
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% C	M-H, Fixed, 95% CI
ARTS 2005	48	600	46	605	63.7%	1.05 [0.71, 1.55]	-
Hueb 2007 (MASS-II)	32	205	26	203	36.3%	1.22 [0.75, 1.97]	*
Total (95% CI)		805		808	100.0%	1.11 [0.82, 1.50]	*
Total events	80		72				
Heterogeneity: Chi ² = 0.2	22, df = 1	(P = 0.6)	64); $I^2 = 0$		0.01 0.1 1 10 100		
Test for overall effect: Z	= 0.69 (P	= 0.49)		F:	0.01 0.1 1 10 100		

15. MI – 5 years

	PCI		CAB	G		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95%	CI M-H, Fixed, 95% CI
ARTS 2005	51	600	39	605	53.9%	1.32 [0.88, 1.97	·] ——
Hueb 2007 (MASS-II)	47	205	33	203	46.1%	1.41 [0.94, 2.11	j -
Total (95% CI)		805		808	100.0%	1.36 [1.02, 1.81	ı
Total events	98		72				
Heterogeneity: Chi ² = 0.0	05, df = 1	P = 0.8	32); $I^2 = 0$	%			0.01 0.1 1 10 100
Test for overall effect: Z	= 2.13 (P =	= 0.03)					Favours experimental Favours control

16. Repeat revascularisation - 5 years

	PCI		CAB	G		Risk Ratio	Risk Ratio	
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% C	CI M-H, Fixed, 95% CI	
ARTS 2005	182	600	53	605	88.2%	3.46 [2.61, 4.60]		
Hueb 2007 (MASS-II)	66	205	7	203	11.8%	9.34 [4.39, 19.86]	j -	
Total (95% CI)		805		808	100.0%	4.15 [3.19, 5.41]	ı ◆	
Total events	248		60					
Heterogeneity: Chi ² = 6.0		`	, .	3%		0.01 0.1 1 10 10	- Т	
Test for overall effect: Z	= 10.54 (F	< 0.00	0001)		F	Favours experimental Favours control		

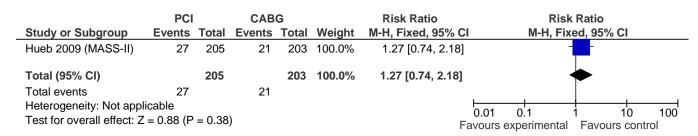
17. Free of angina - 5 years

	PCI CABG			Risk Ratio	Risk Ratio	
Study or Subgroup	Events To	tal Events	Total	Weight	M-H, Fixed, 95% CI	M-H, Fixed, 95% CI
ARTS 2005	467 6	500 511	605	80.1%	0.92 [0.87, 0.97]	
Hueb 2007 (MASS-II)	119 2	205 126	203	19.9%	0.94 [0.80, 1.10]	•
Total (95% CI)	8	805	808	100.0%	0.92 [0.88, 0.98]	•
Total events	586	637				
Heterogeneity: Chi ² = 0.0 Test for overall effect: Z		, .	%		Fa	0.01 0.1 1 10 100 vours experimental Favours control

18. Death (all causes) - 10 years

	PCI CAI		CAB	CABG		Risk Ratio		Risk Ratio		
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% C	I	M-H, Fixed	d, 95% CI	
Hueb 2009 (MASS-II)	49	205	51	203	100.0%	0.95 [0.68, 1.34]				
Total (95% CI)		205		203	100.0%	0.95 [0.68, 1.34]		*	•	
Total events	49		51							
Heterogeneity: Not appl				0.01	0.1 1	10	100			
Test for overall effect: Z	= 0.29 (P	= 0.77)			F			Favours con	

19. MI (non-fatal) - 10 years



20. Repeat revascularisation - 10 years

	PCI		CAB	CABG		Risk Ratio		Risk Ratio		
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% C	l	M-H, Fix	ed, 95% CI	
Hueb 2009 (MASS-II)	85	205	15	203	100.0%	5.61 [3.36, 9.38]			-	
Total (95% CI)		205		203	100.0%	5.61 [3.36, 9.38]			•	
Total events	85		15							
Heterogeneity: Not appl Test for overall effect: Z		< 0.00	001)			F	0.01 avours	0.1 experimental	1 10 Favours cont	100

21. Free of angina – 10 years

	PCI		CAB	G		Risk Ratio	Risk Ratio
Study or Subgroup	Events	Total	Events	Total	Weight	M-H, Fixed, 95% C	M-H, Fixed, 95% CI
Hueb 2009 (MASS-II)	120	205	130	203	100.0%	0.91 [0.78, 1.07]	—
Total (95% CI)		205		203	100.0%	0.91 [0.78, 1.07]	•
Total events	120		130				
Heterogeneity: Not appl	icable						0.01 0.1 1 10 100
Test for overall effect: Z	= 1.14 (P	= 0.25)		F	Favours experimental Favours control	