Appendix H: Data analysis

H.1 Review question 1 data analysis

No additional data analysis performed for this question

H.2 Review question 2 data analysis

No additional data analysis performed for this question

H.3 Review question 3 data analysis

No additional data analysis performed for this question

H.4 Review question 4 data analysis

No additional data analysis performed for this question

H.5 Review question 5 data analysis

No additional data analysis performed for this question

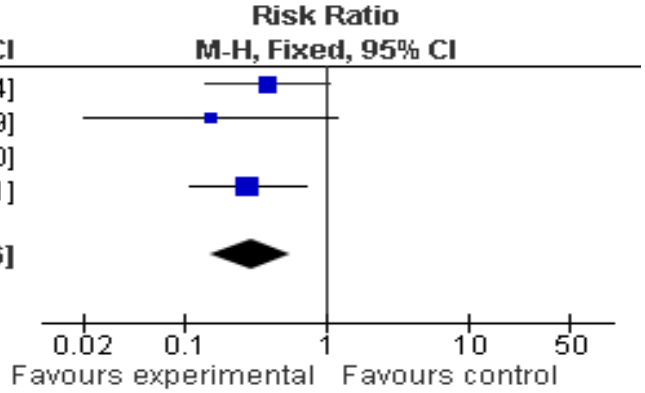
H.6 Review question 6 data analysis

H.6.1 Self-temperature monitoring for prevention of diabetic foot problems:

Rate of Ulceration

Study or Subgroup	Experimental Events	Experimental Total	Control Events	Control Total	Weight	Risk Ratio M-H, Fixed, 95% CI
Armstrong 2007	5	106	14	115	35.7%	0.39 [0.14, 1.04]
Lavery 2004	1	41	7	44	17.9%	0.15 [0.02, 1.19]
Lavery 2007	17	58	17	56	0.0%	0.97 [0.55, 1.70]
Lavery 2007	5	59	17	56	46.4%	0.28 [0.11, 0.71]
Total (95% CI)		**206**		**215**	**100.0%**	**0.30 [0.16, 0.56]**
Total events	11		38			

Heterogeneity: Chi² = 0.70, df = 2 (P = 0.71); I² = 0%
Test for overall effect: Z = 3.74 (P = 0.0002)

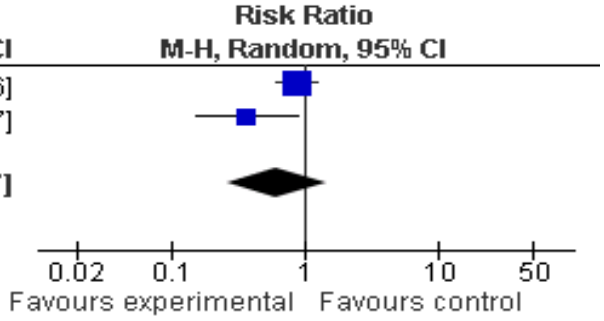


H.6.2 Pressure customised vs shape customised orthoses for prevention of diabetic foot problems amongst high risk patients:

Rate of Ulceration

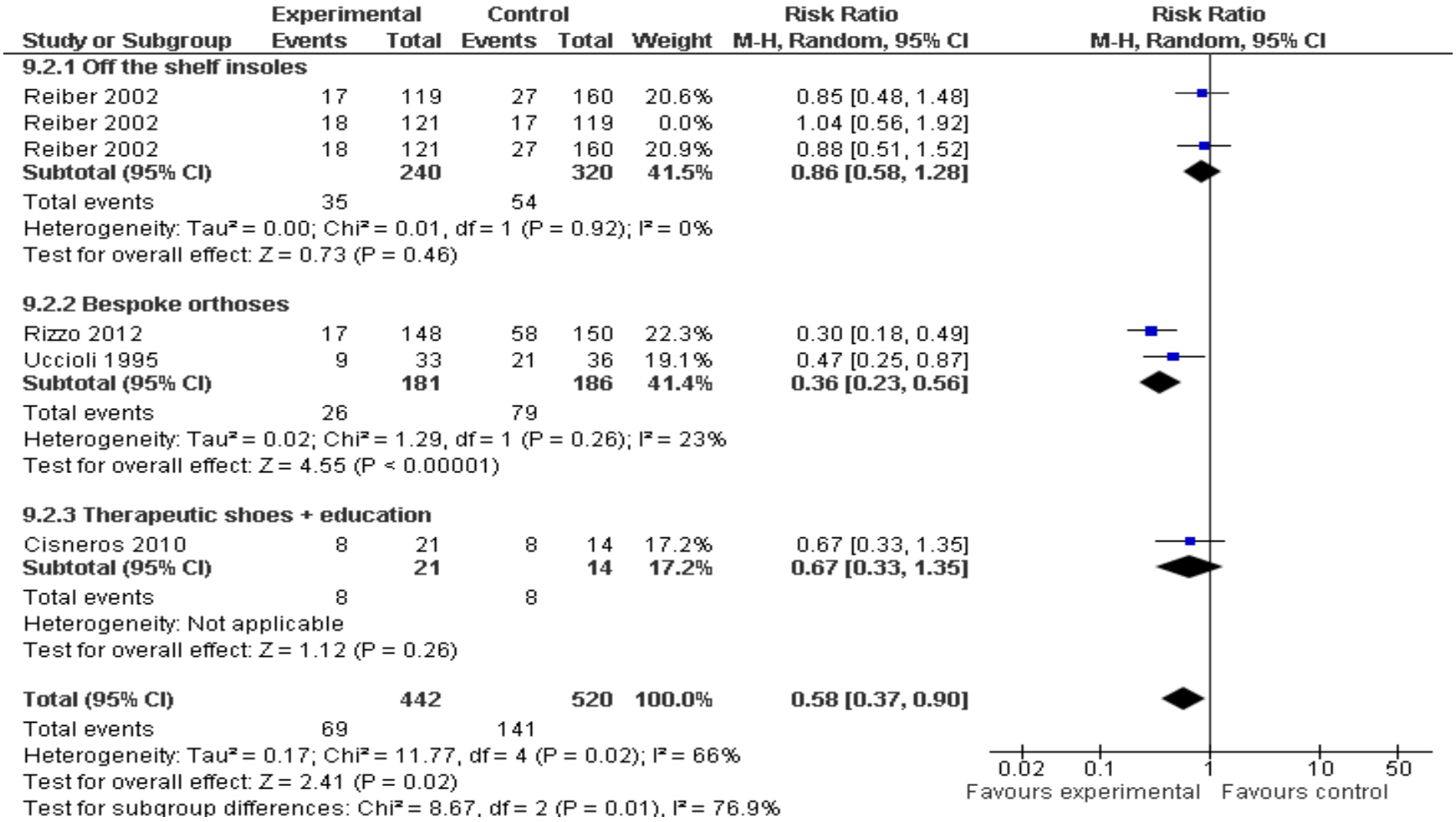
Study or Subgroup	Experimental Events	Experimental Total	Control Events	Control Total	Weight	Risk Ratio M-H, Random, 95% CI
Bus 2013	33	85	38	86	60.1%	0.88 [0.61, 1.26]
Ulbrecht 2014	6	66	16	64	39.9%	0.36 [0.15, 0.87]
Total (95% CI)		**151**		**150**	**100.0%**	**0.62 [0.26, 1.47]**
Total events	39		54			

Heterogeneity: Tau² = 0.29; Chi² = 3.52, df = 1 (P = 0.06); I² = 72%
Test for overall effect: Z = 1.09 (P = 0.28)



H.6.3 Therapeutic footwear vs standard care for prevention of diabetic foot problems amongst high risk patients:

Rate of ulceration (different types of footwear vs standard care)



H.7 Review question 6 data analysis

H.7.1 ESR testing for osteomyelitis

ERS≥60mm/h

Study	TP	FP	FN	TN	Sensitivity	Specificity
Ertugrul 2009-ERS≥60	22	7	2	15	0.92 [0.73, 0.99]	0.68 [0.45, 0.86]
Kaleta 2001-ERS≥60	17	1	2	9	0.89 [0.67, 0.99]	0.90 [0.55, 1.00]

ERS≥65mm/h

Study	TP	FP	FN	TN	Sensitivity	Specificity
Kaleta 2001-ERS≥65	17	1	2	9	0.89 [0.67, 0.99]	0.90 [0.55, 1.00]
Ertugrul 2009-ERS≥65	21	6	3	16	0.88 [0.68, 0.97]	0.73 [0.50, 0.89]

ERS≥75mm/h

Study	TP	FP	FN	TN	Sensitivity	Specificity
Kaleta 2001-ERS≥75	16	0	3	10	0.84 [0.60, 0.97]	1.00 [0.69, 1.00]
Ertugrul 2009-ERS≥75	19	4	5	18	0.79 [0.58, 0.93]	0.82 [0.60, 0.95]

ERS≥80mm/h

Study	TP	FP	FN	TN	Sensitivity	Specificity
Kaleta 2001-ERS≥80	15	0	4	10	0.79 [0.54, 0.94]	1.00 [0.69, 1.00]
Ertugrul 2009-ERS≥80	17	2	7	20	0.71 [0.49, 0.87]	0.91 [0.71, 0.99]

ERS≥70mm/h

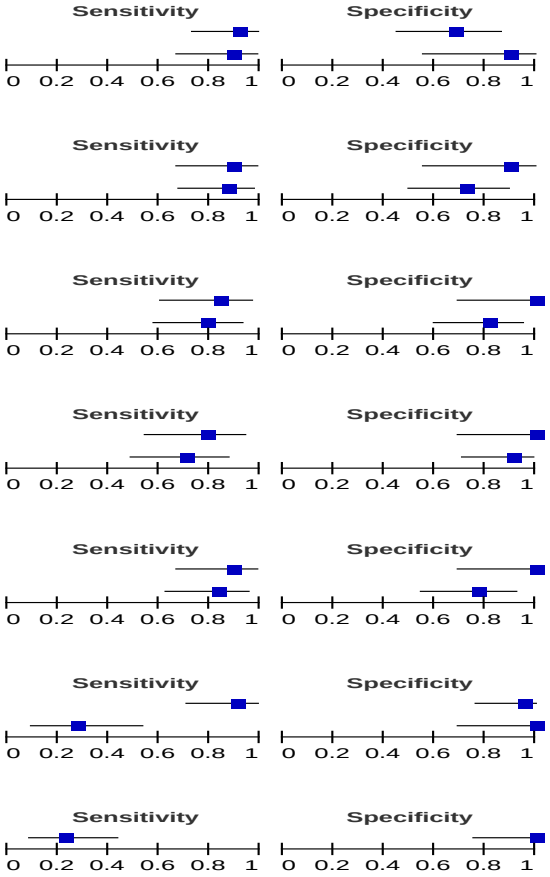
Study	TP	FP	FN	TN	Sensitivity	Specificity
Kaleta 2001-ERS≥70	17	0	2	10	0.89 [0.67, 0.99]	1.00 [0.69, 1.00]
Ertugrul 2009-ERS≥70	20	5	4	17	0.83 [0.63, 0.95]	0.77 [0.55, 0.92]

ERS>70mm/h

Study	TP	FP	FN	TN	Sensitivity	Specificity
Malabu 2007-ERS>70	20	1	2	20	0.91 [0.71, 0.99]	0.95 [0.76, 1.00]
Newman 1991-ERS>70	5	0	13	10	0.28 [0.10, 0.53]	1.00 [0.69, 1.00]

ERS>100mm/h

Study	TP	FP	FN	TN	Sensitivity	Specificity
Newman 1991-ERS>100	6	0	20	13	0.23 [0.09, 0.44]	1.00 [0.75, 1.00]



H.8 No meta-analysis performed for this question

No additional data analysis performed for this question

H.9 No meta-analysis performed for this question

No additional data analysis performed for this question

H.10 Review question 10 data analysis

Figure 1: Collagen dressings- complete wound healing

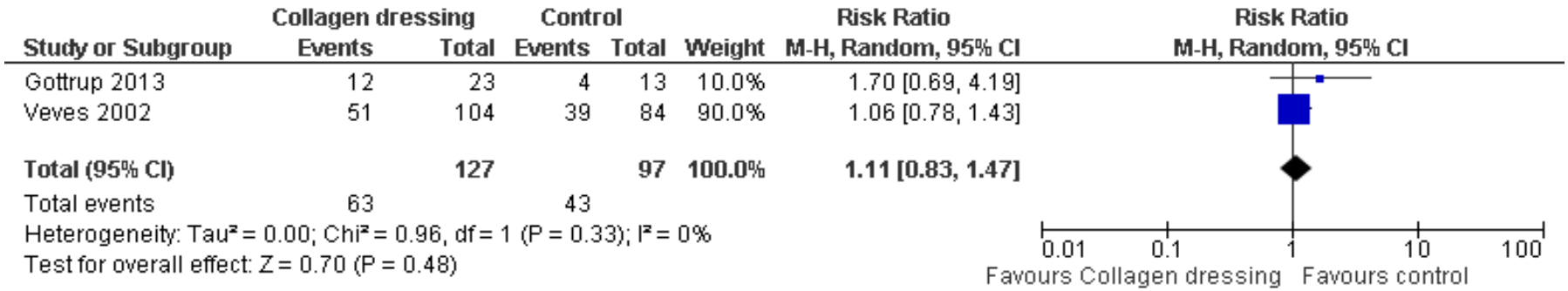


Figure 2: Collagen dressings- Adverse events

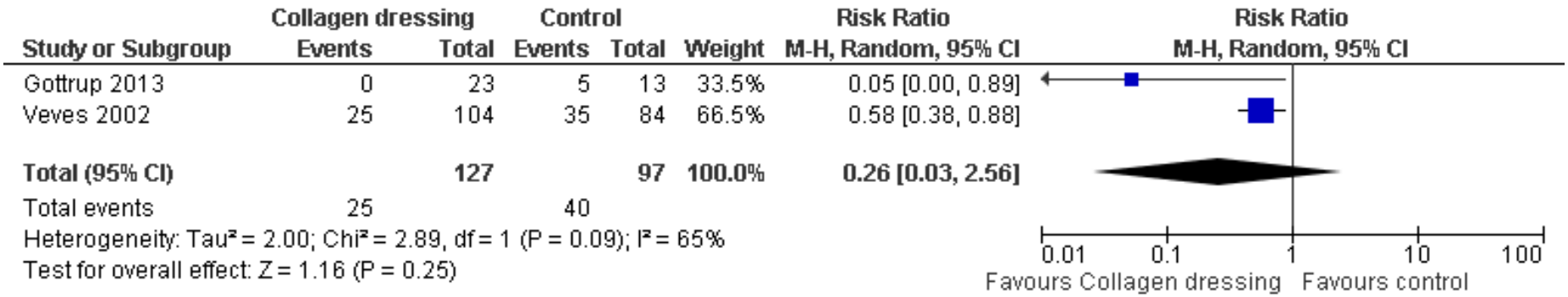


Figure 3: Irremovable versus removable offloading devices- Wound healing TCC versus Removable cast walker

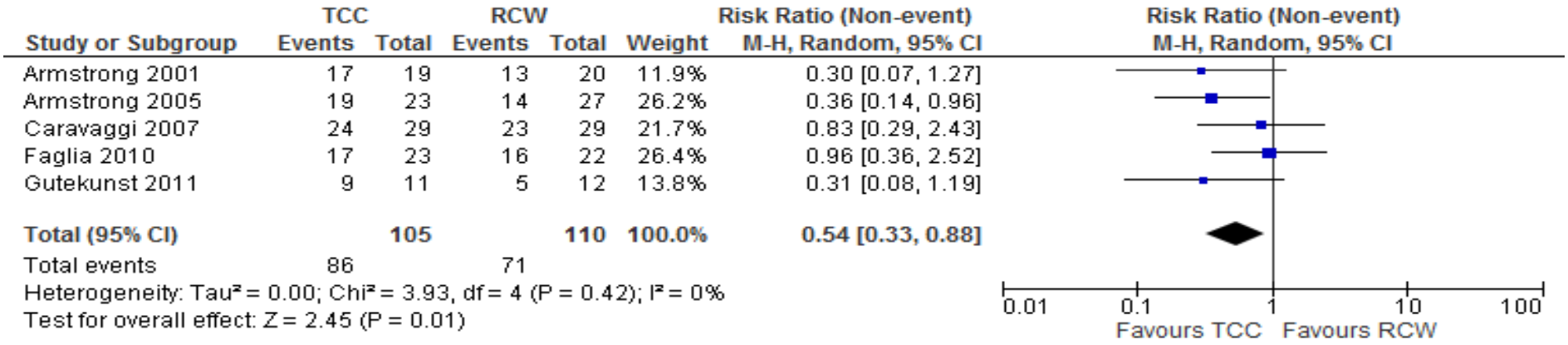


Figure 4: Irremovable versus removable offloading devices- Mean healing time (days) TCC versus Removable cast walker

	TCC			RCW				Std. Mean Difference
Study or Subgroup	**Mean**	**SD**	**Total**	**Mean**	**SD**	**Total**	**Weight**	**IV, Random, 95% CI**
Armstrong 2001	33.5	5.9	19	50.4	7.2	20	32.3%	-2.51 [-3.37, -1.65]
Armstrong 2005	41.6	18.7	23	58	15.2	27	35.0%	-0.96 [-1.54, -0.37]
Gutekunst 2011	95	61	11	94	64	12	32.7%	0.02 [-0.80, 0.83]
Total (95% CI)			**53**			**59**	**100.0%**	**-1.14 [-2.43, 0.15]**

Heterogeneity: Tau² = 1.14; Chi² = 17.66, df = 2 (P = 0.0001); I² = 89%
Test for overall effect: Z = 1.74 (P = 0.08)

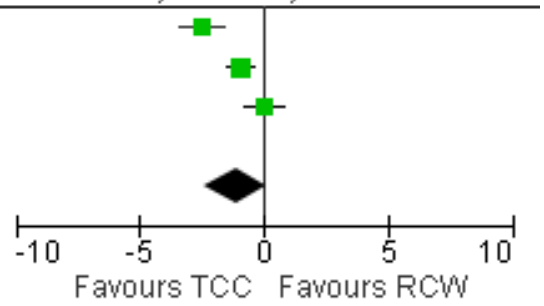


Figure 5: Irremovable versus removable offloading devices- Wound healing TCC versus Removable footwear

	Cast		Footwear			Risk Ratio
Study or Subgroup	**Events**	**Total**	**Events**	**Total**	**Weight**	**M-H, Random, 95% CI**
Caravaggi 2010	13	26	5	24	52.1%	2.40 [1.01, 5.73]
Van de Weg 2008	6	23	6	20	47.9%	0.87 [0.33, 2.27]
Total (95% CI)		**49**		**44**	**100.0%**	**1.48 [0.55, 3.99]**
Total events	19		11			

Heterogeneity: Tau² = 0.30; Chi² = 2.37, df = 1 (P = 0.12); I² = 58%
Test for overall effect: Z = 0.77 (P = 0.44)

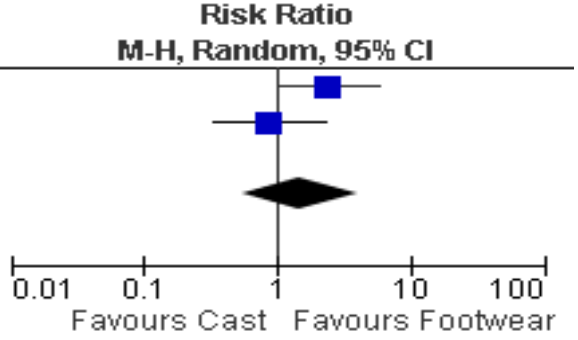


Figure 6: Irremovable versus Irremovable offloading devices- Wound healing TCC versus iTCC

Study or Subgroup	Experimental Events	Total	Control Events	Total	Weight	Risk Ratio M-H, Random, 95% CI
Katz 2005	15	20	17	21	29.8%	0.93 [0.67, 1.29]
Piaggesi 2007	19	20	17	20	70.2%	1.12 [0.91, 1.38]
Total (95% CI)		**40**		**41**	**100.0%**	**1.06 [0.88, 1.27]**
Total events	34		34			

Heterogeneity: Tau² = 0.00; Chi² = 1.03, df = 1 (P = 0.31); I² = 3%
Test for overall effect: Z = 0.60 (P = 0.55)

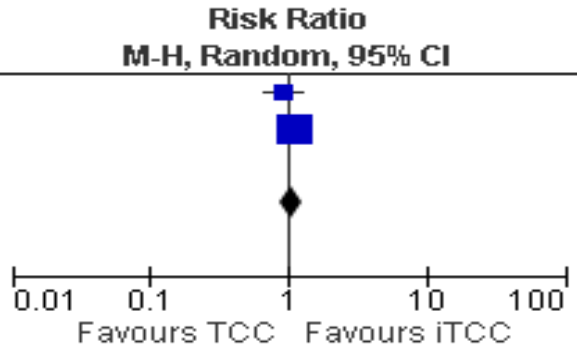
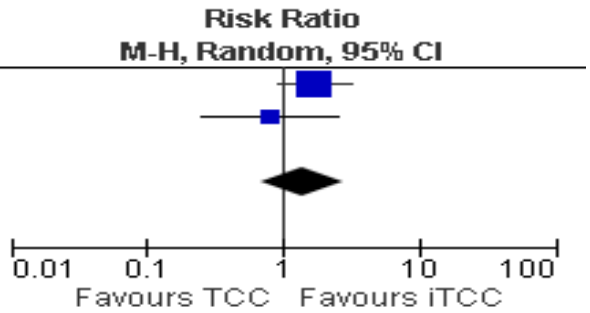


Figure 7: Irremovable versus Irremovable offloading devices- adverse events TCC versus iTCC

Study or Subgroup	Experimental Events	Total	Control Events	Total	Weight	Risk Ratio M-H, Random, 95% CI
Katz 2005	13	20	8	21	70.7%	1.71 [0.91, 3.21]
Piaggesi 2007	4	20	5	20	29.3%	0.80 [0.25, 2.55]
Total (95% CI)		**40**		**41**	**100.0%**	**1.37 [0.69, 2.72]**
Total events	17		13			

Heterogeneity: Tau² = 0.07; Chi² = 1.31, df = 1 (P = 0.25); I² = 23%
Test for overall effect: Z = 0.89 (P = 0.37)



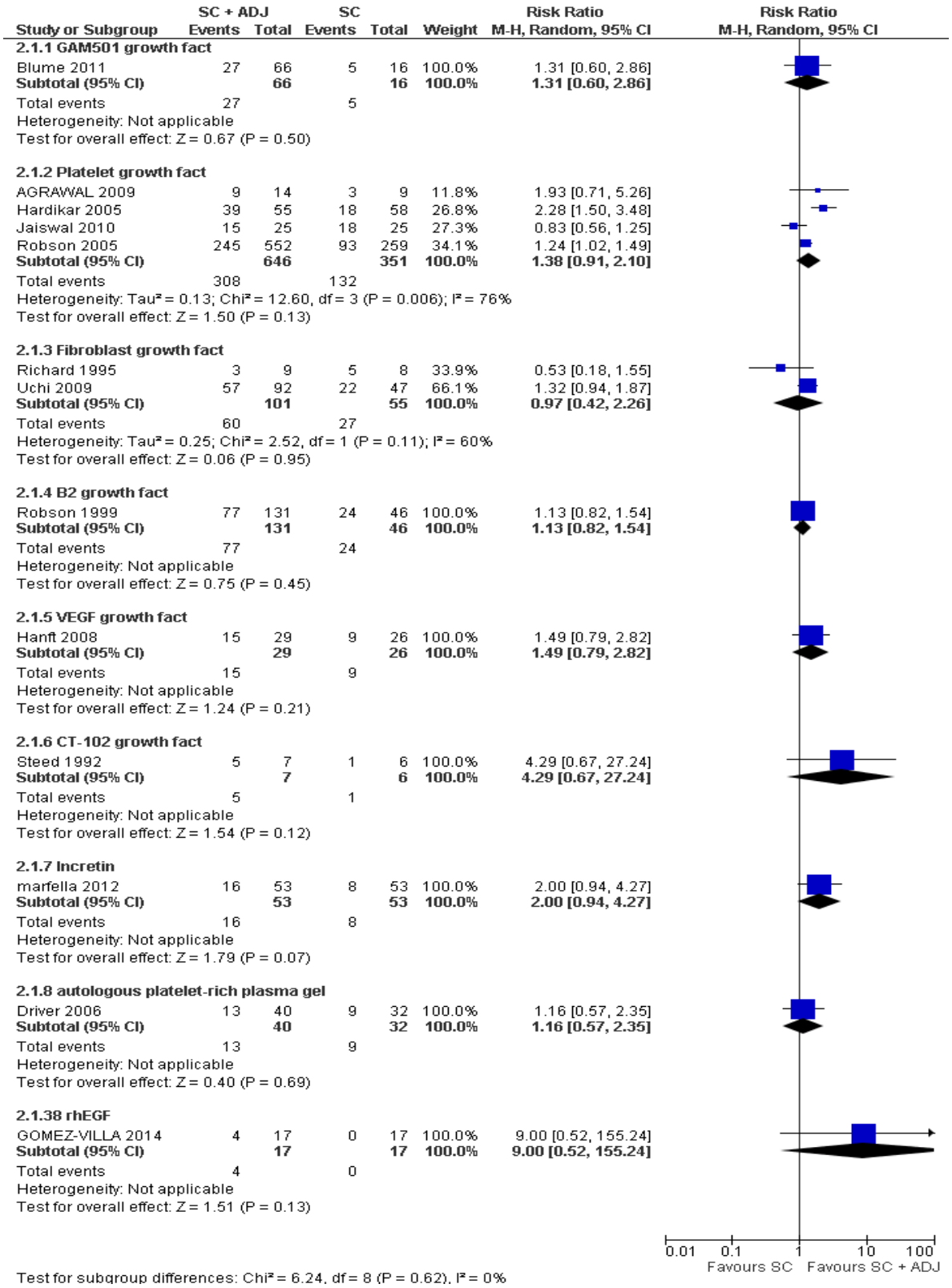
H.11 Review question 11 data analysis

No additional data analysis performed for this question

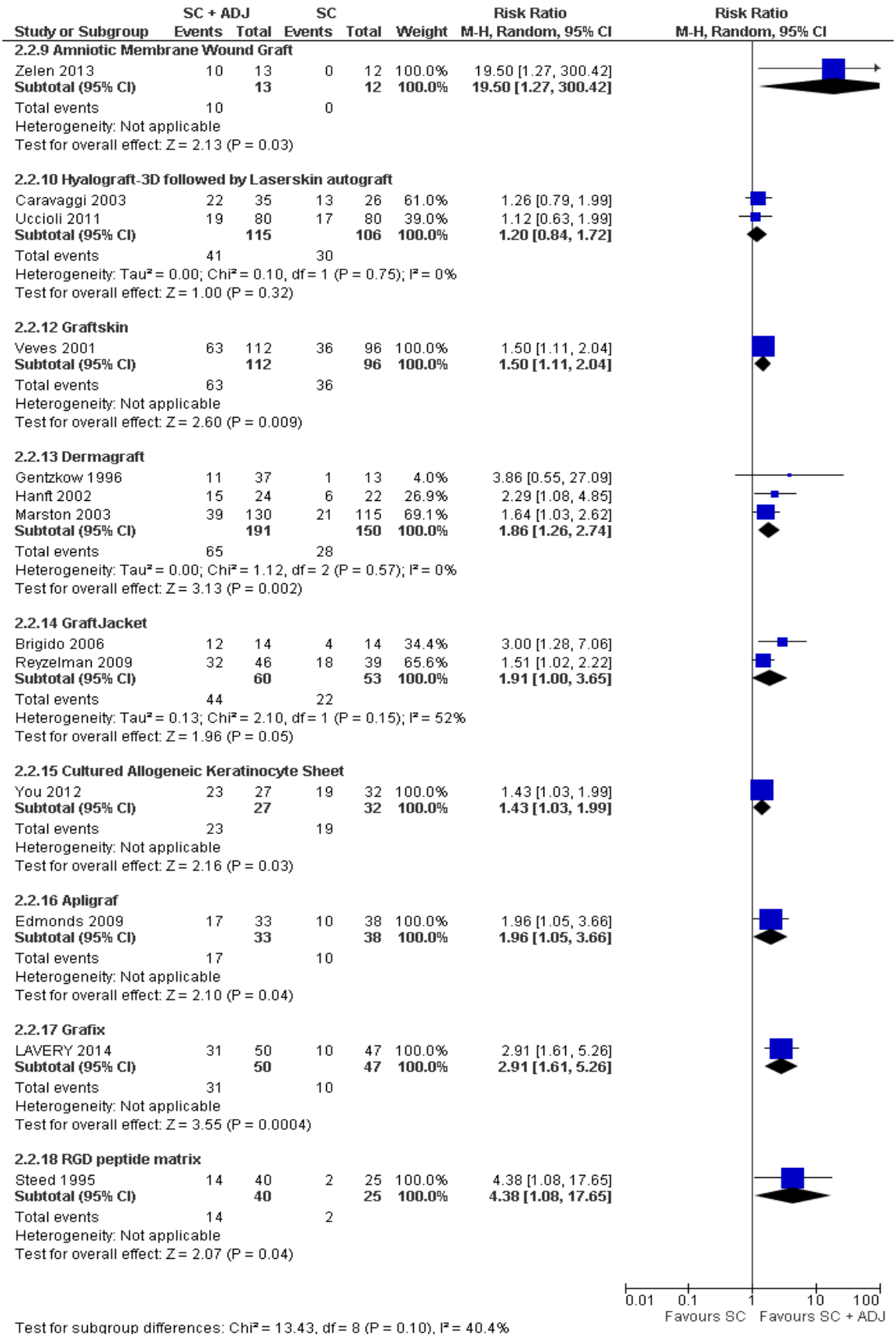
H.12 Review question 12 data analysis

H.12.1 Cure rate

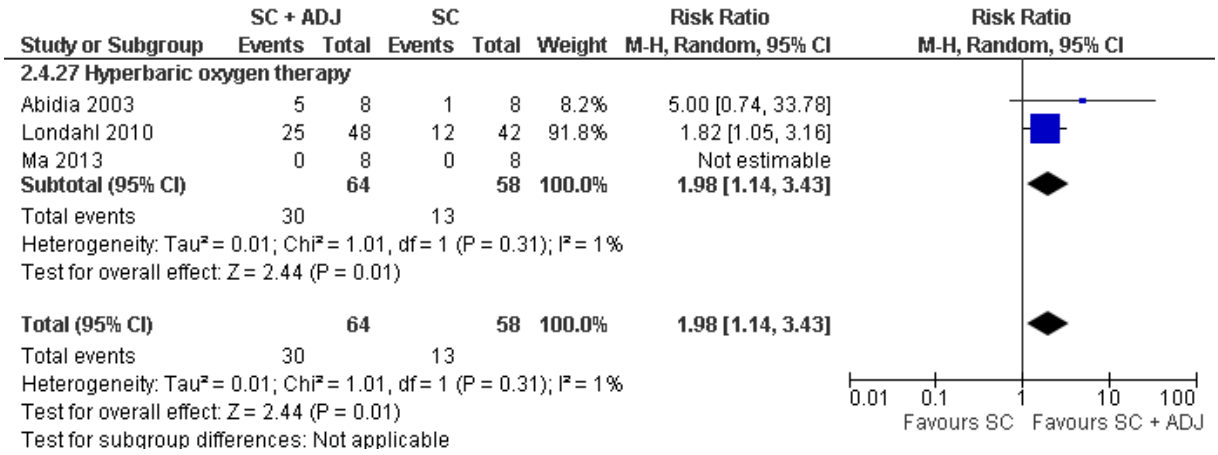
H.12.1.1 Growth factor and growth factor derived treatments



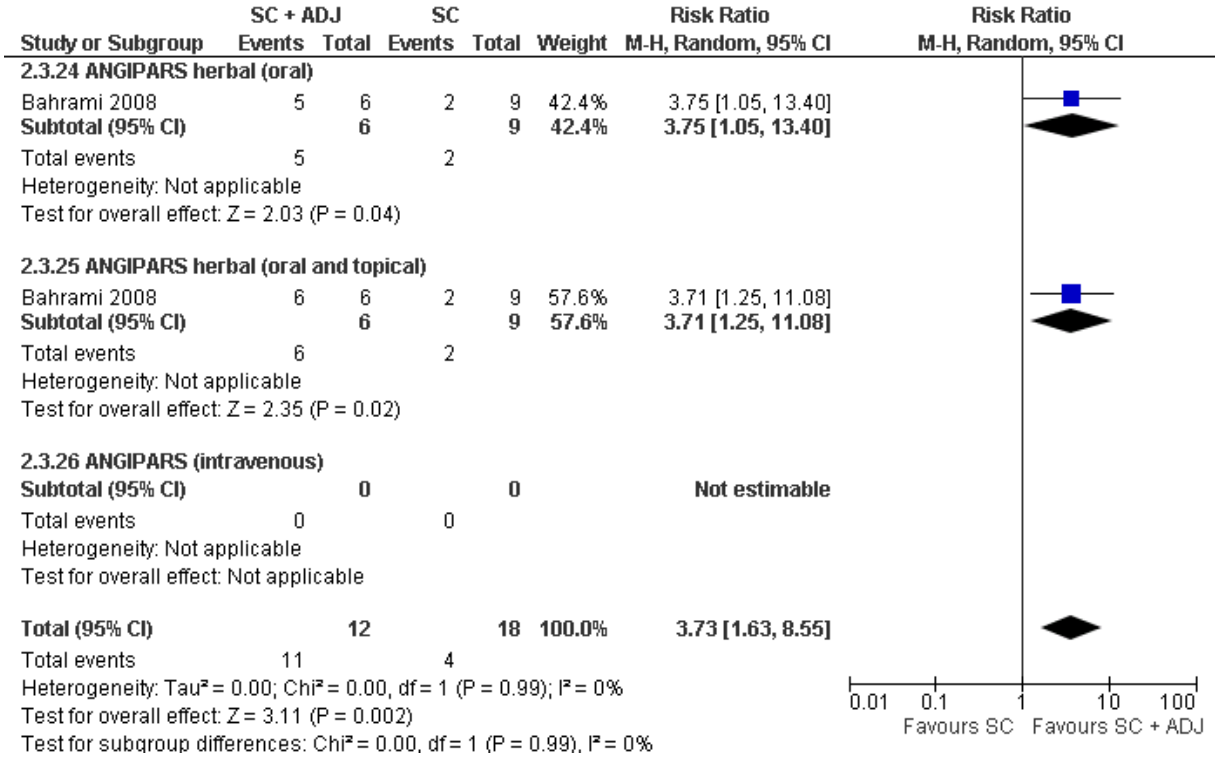
H.12.1.2 Dermal or skin substitutes



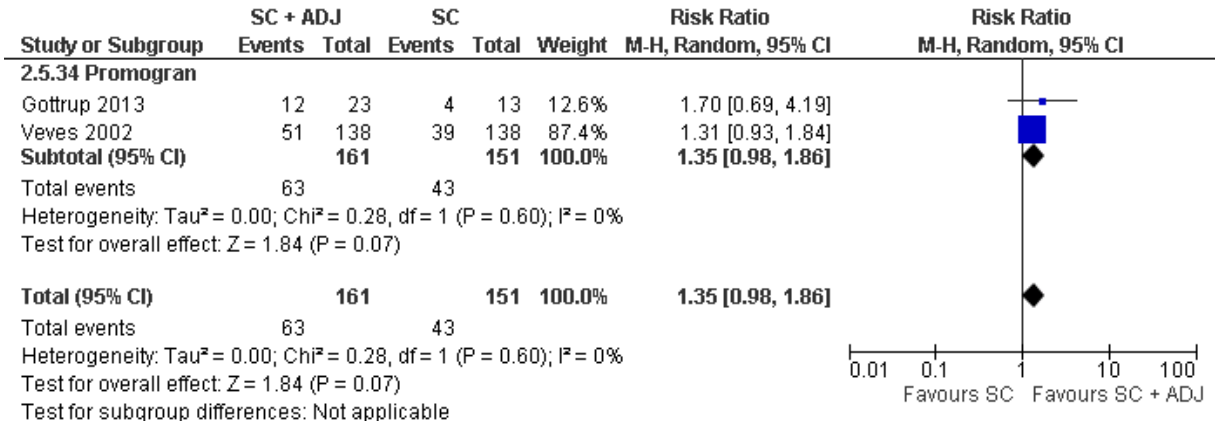
H.12.1.3 Hyperbaric oxygen therapy



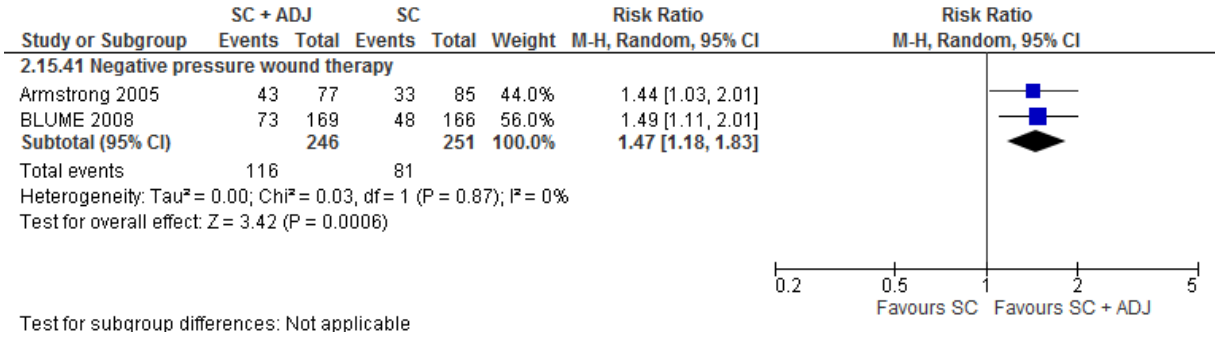
H.12.1.4 ANGIPARS herbal



H.12.1.5 Promogran

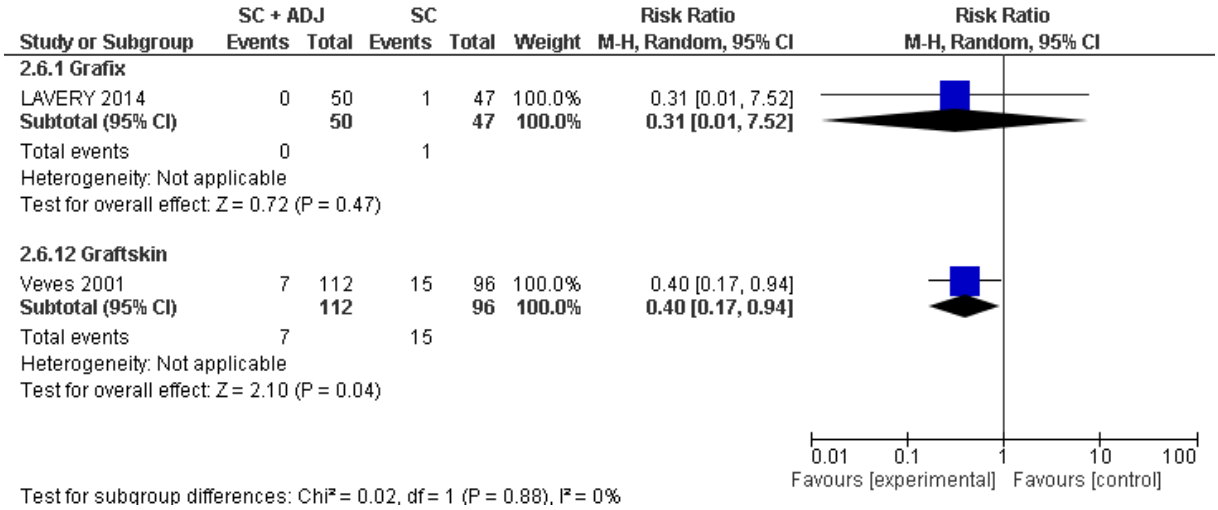


H.12.1.6 Negative pressure wound therapy



H.12.2 Amputation rate

H.12.2.1 Dermal or skin substitutes



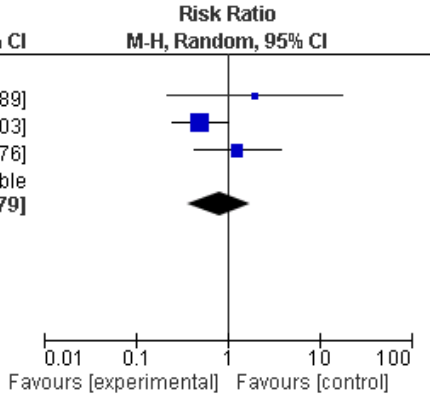
H.12.2.2 Hyperbaric oxygen therapy

Study or Subgroup	SC + ADJ Events	SC + ADJ Total	SC Events	SC Total	Weight	Risk Ratio M-H, Random, 95% CI
2.7.27 Hyperbaric oxygen therapy						
Abidia 2003	2	8	1	8	11.4%	2.00 [0.22, 17.89]
Faglia 1996	8	35	15	33	54.0%	0.50 [0.25, 1.03]
Londahl 2010	7	49	5	45	34.6%	1.29 [0.44, 3.76]
Ma 2013	0	8	0	8		Not estimable
Subtotal (95% CI)		**100**		**94**	**100.0%**	**0.81 [0.37, 1.79]**
Total events	17		21			

Heterogeneity: $Tau^2 = 0.16$; $Chi^2 = 2.95$, df = 2 (P = 0.23); $I^2 = 32\%$

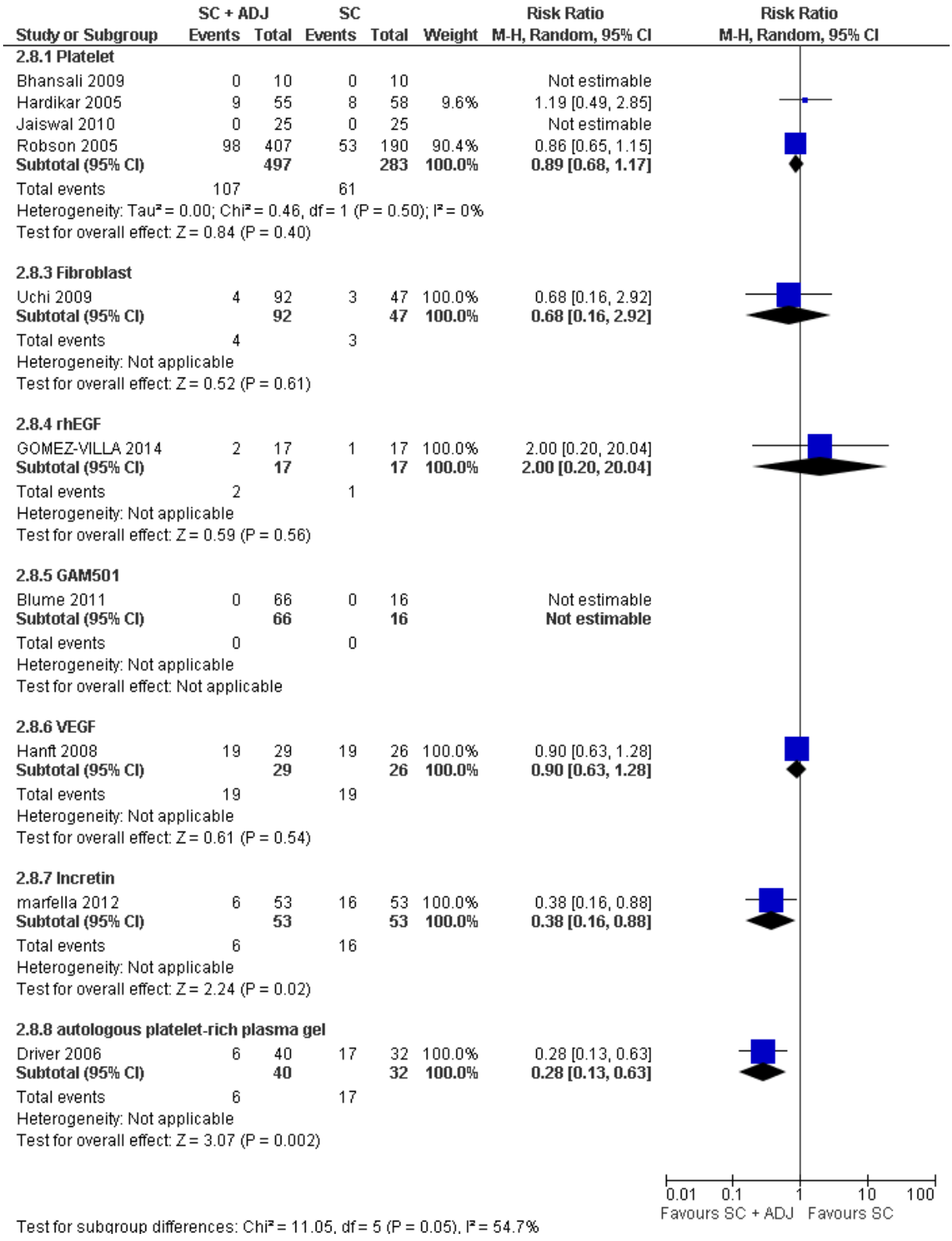
Test for overall effect: Z = 0.51 (P = 0.61)

Test for subgroup differences: Not applicable

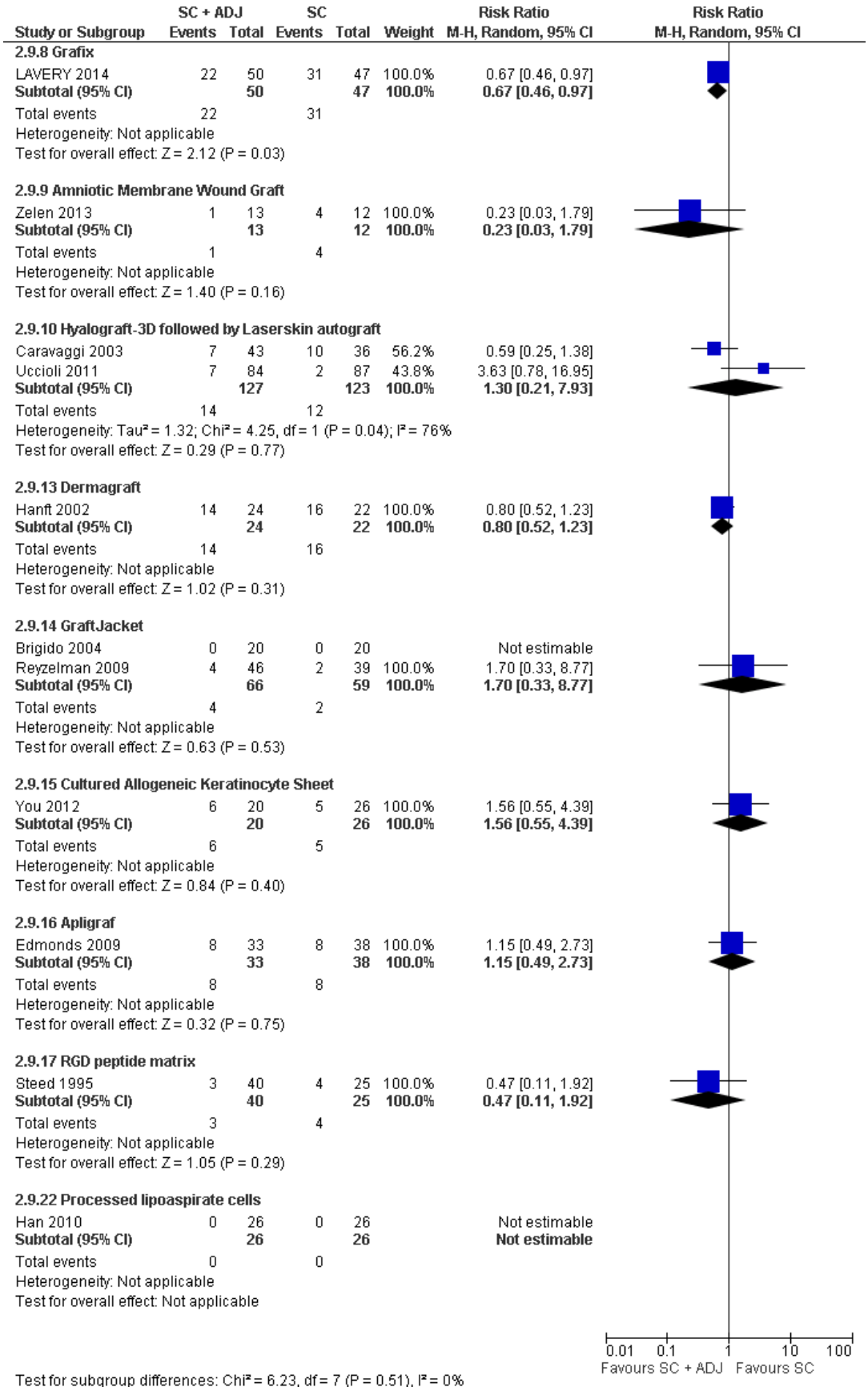


H.12.3 Adverse events rate

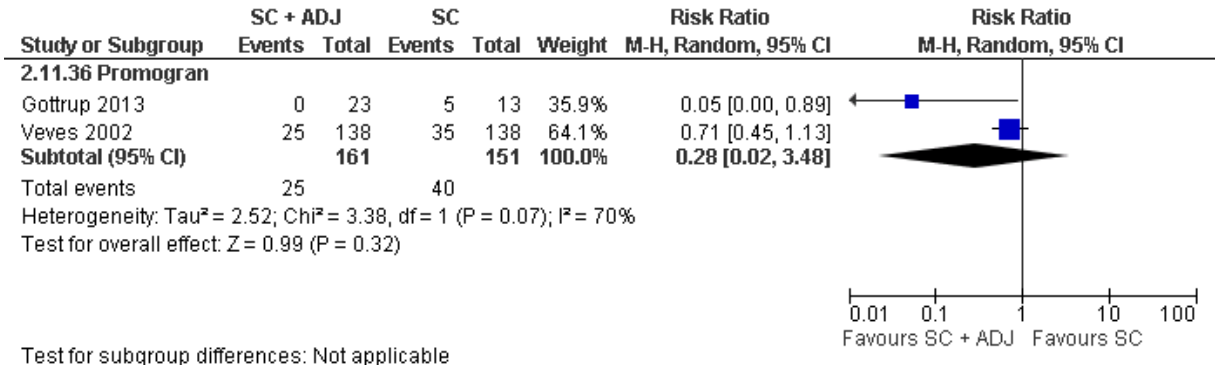
H.12.3.1 Growth factor and growth factor derived treatments



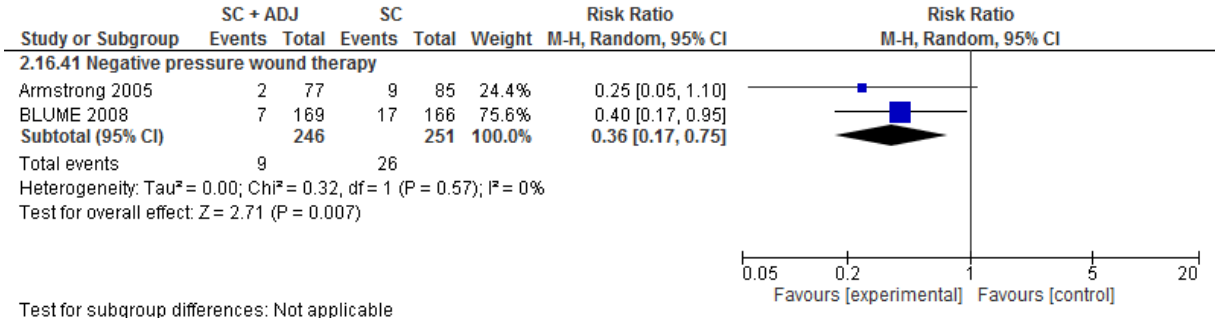
H.12.3.2 Dermal or skin substitutes



H.12.3.3 Promogran

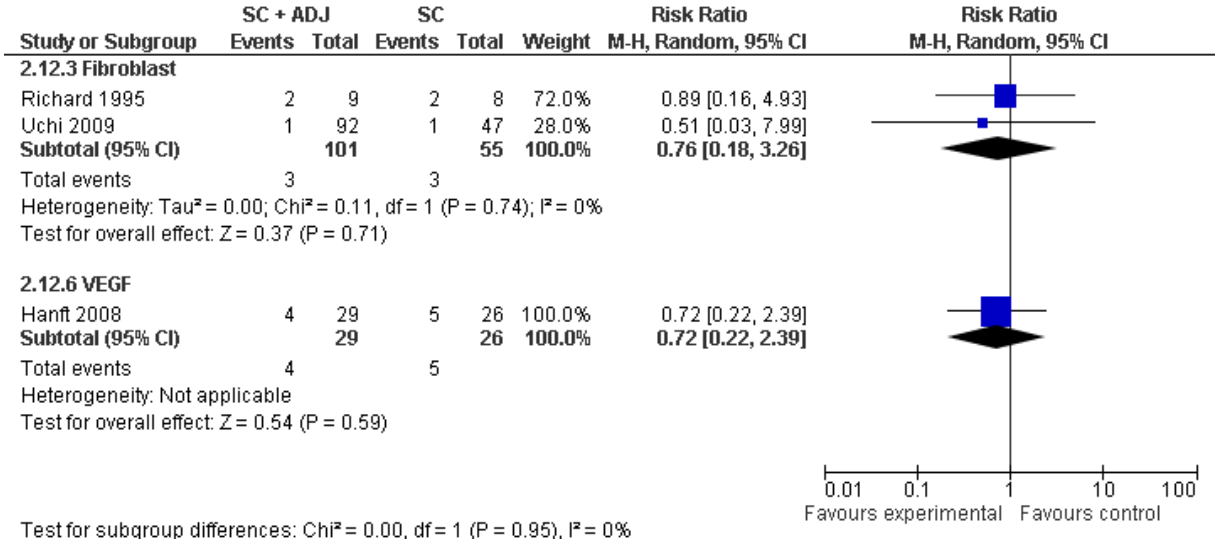


H.12.3.4 Negative pressure wound therapy

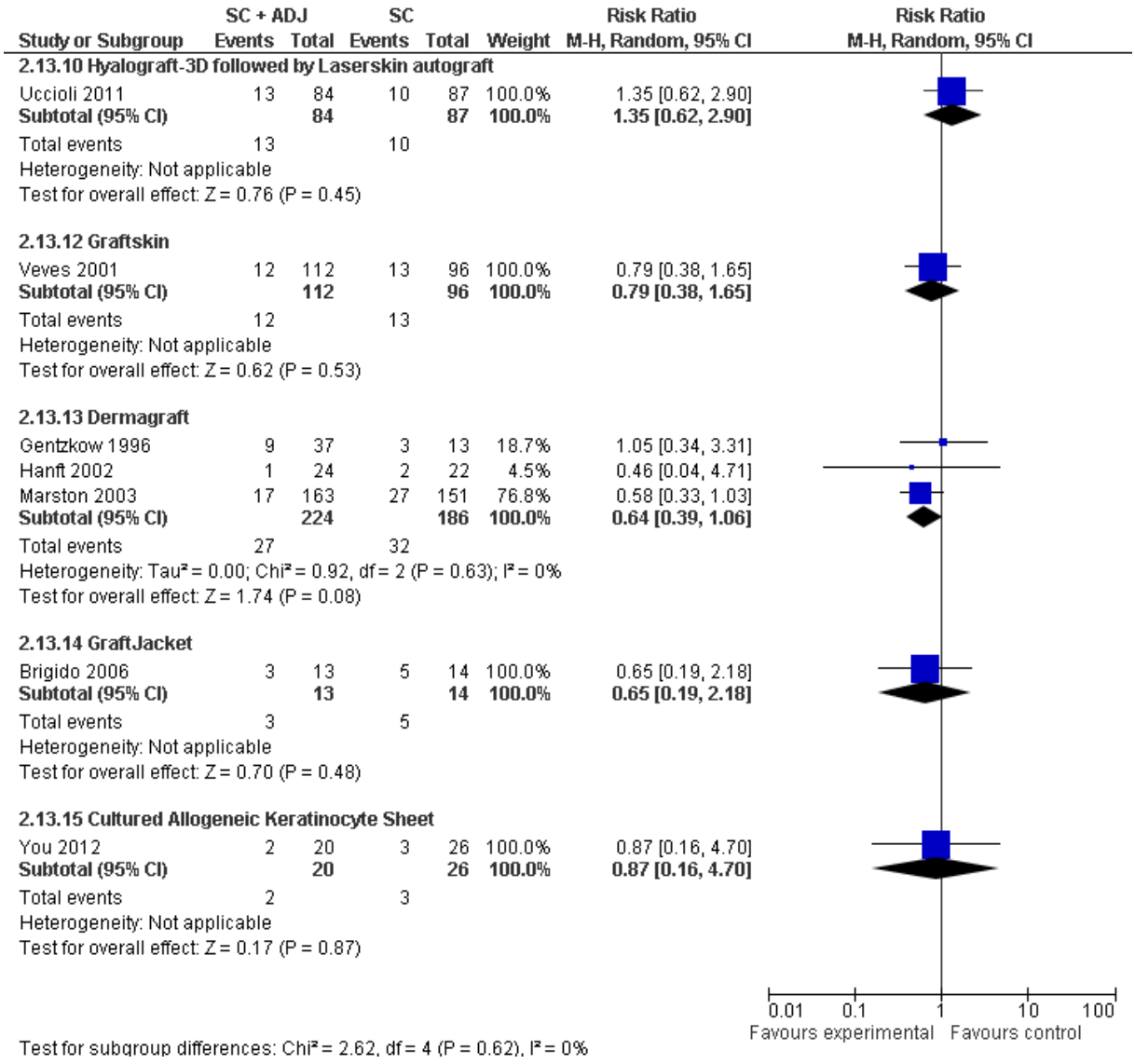


H.12.4 Infection rate

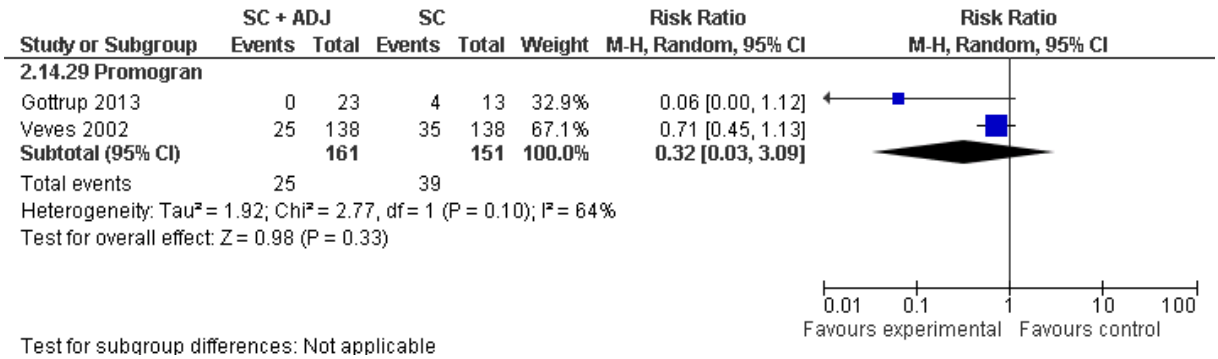
H.12.4.1 Growth factor and growth factor derived treatments



H.12.4.2 Dermal or skin substitutes



H.12.4.3 Promogran



H.13 Review question 13 data analysis

No additional data analysis performed for this question

H.14 Review question 14 data analysis

No additional data analysis performed for this question

H.15 Review question 15 data analysis

No additional data analysis performed for this question

H.16 Review question 16 data analysis

No additional data analysis performed for this question