

**Webtable 1: Outcomes in high risk infants according to intervention group**

Variable	Probiotic arm	Placebo arm	OR (95% CI)	P value*
<b>Primary outcome</b>				
Diagnosed eczema at 2 years	65/179 (36.3%)	65/183 (35.5%)	1.04 (0.67-1.59)	0.88
SPT <sup>†</sup> positive at 6 m	6/129 (4.7%)	13/122 (10.7%)	0.41 (0.15-1.11)	0.072
• cows' milk	0/126 (0.0%)	5/122 (4.1%)	-	0.028
• egg	5/126 (4.0%)	12/122 (9.8%)	0.38 (0.13-1.11)	0.081
• house dust mite	1/129 (0.8%)	0/122 (0.0%)	-	0.49
• cat	0/129 (0.0%)	1/122 (0.8%)	-	0.49
• grass	1/129 (0.8%)	0/122 (0.0%)	-	0.49
SPT <sup>†</sup> positive at 6m or 2 yrs	17/147 (11.6%)	25/141 (17.7%)	0.61 (0.31-1.18)	0.14
• cows' milk	1/147 (0.7%)	6/141 (4.3%)	0.15 (0.02-1.30)	0.062
• egg	8/147 (5.4%)	16/141 (11.3%)	0.45 (0.19-1.09)	0.070
• house dust mite	9/147 (6.1%)	9/141 (6.4%)	0.96 (0.37-2.48)	0.93
• cat	3/147 (2.0%)	5/141 (3.5%)	0.57 (0.13-2.42)	0.44
• grass	2/147 (1.4%)	1/141 (0.7%)	1.93 (0.17-21.54)	0.59
Skin				
• Atopic eczema at 6 m	4/129 (3.1%)	10/122 (8.2%)	0.36 (0.11-1.18)	0.079
• Severity of eczema at 6 m clinic <sup>‡</sup> ; median, (IQR)	14.5 (7.4-19.1)	14.4 (9.4-24.9)	N/A	0.44
• Atopic eczema at 2 yrs	9/147 (6.1%)	16/141 (11.3%)	0.51 (0.22-1.20)	0.12
• Severity of eczema at 2 yr clinic <sup>‡</sup> ; median (IQR)	11.1 (7.2-24.8)	11.1 (7.2-17.8)	N/A	0.52
• All reported eczema <sup>§¶</sup>	65/179 (36.3%)	65/183 (35.5%)	1.04 (0.67-1.59)	0.88
• Received topical steroid preparation	26/179 (14.5%)	31/186 (16.7%)	0.85 (0.48-1.50)	0.57
Respiratory				
• All reported asthma <sup>¶</sup>	20/165 (12.1%)	15/165 (9.1%)	1.38 (0.68-2.80)	0.37
• Night time cough	134/179 (74.9%)	139/186 (74.7%)	1.01 (0.63-1.62)	0.98
• Night or daytime cough	152/179 (84.9%)	158/186 (84.9%)	1.00 (0.56-1.77)	0.99
• Wheezing without symptoms of a virus infection	41/179 (22.9%)	41/186 (22.0%)	1.05 (0.64-1.72)	0.84
• Inhaled bronchodilator or steroid	24/179 (13.4%)	20/186 (10.8%)	1.29 (0.68-2.42)	0.44
• Allergic rhinitis <sup>¶</sup>	8/161 (5.0%)	10/167 (6.0%)	0.82 (0.32-2.14)	0.69
• Sneezing and/or snuffling	175/179 (97.8%)	177/186 (95.2%)	2.22 (0.57-7.36)	0.18
Any reported food allergy <sup>¶</sup>	20/167 (12.0%)	28/169 (16.6%)	0.69 (0.37-1.27)	0.23

*Note 1:* This table gives the number of participants (%) unless otherwise stated

\*Chi squared test for contingency tables or Fisher's Exact test\* where expected values were <5

†SPT (skin prick test) valid if diameter of wheal for the positive control was ≥1mm than diameter for the negative control; SPT positive if diameter of wheal for antigen was ≥3mm than diameter for negative control

‡SCORAD<sup>18</sup>

§of any duration

¶whether or not diagnosed by a health professional