

Potential risk factor	Myopia ($\leq -0.75D$)				
	n	Unadjusted model OR (95% CI) ¹	p value	Adjusted model OR (95% CI) ² (n=1072)	p value / p trend
Age 2 Cognitive ability (g) (standardised scale)	1107	0.95 (0.80 – 1.12)	0.525		
Age 2 Vocabulary total score (scale 0 - 100)	1197	1.00 (0.99 – 1.00)	0.172		
Age 2 Word use total score (scale 0 -5)	1184	1.00 (0.87 – 1.14)	0.964		
Age 2 Sentence complexity score (scale 0 -13)	1184	1.00 (0.94 – 1.05)	0.940		
Age 2 Anxiety (scale 0 -12)	1192	0.94 (0.87 – 1.01)	0.085†		
Age 2 Hyperactivity problems (scale 0 -54)	1191	0.96 (0.89 – 1.04)	0.327		
Age 2 Restless (no / sometimes / certainly)	1190	0.84 (0.68 – 1.04)	0.105		
Age 2 Poor concentration (no / sometimes / certainly)	1185	0.90 (0.72 – 1.11)	0.312		
Age 2 Inattentive (no / sometimes / certainly)	1148	1.07 (0.81 – 1.40)	0.645		
Age 3 Cognitive ability (g) (standardised scale)	1147	0.98 (0.83 – 1.15)	0.803		
Age 3 Number of children's books	1328	0.99 (0.85 – 1.15)	0.877		
Age 3 Use of outdoor toys (always / usually / no)	1340	0.98 (0.74 – 1.30)	0.903		
Age 3 Problems with eyesight					
- No	1261	1.00		1.00	
- Yes	56	0.25 (0.10 – 0.65)	0.004*	0.23 (0.09 - 0.60)	0.002*
Age 3 Vocabulary total score (scale 0 - 100)	1235	0.99 (0.99 -1.00)	0.071†		
Age 3 Word use total score (scale 0 - 12)	1229	0.97 (0.92 – 1.03)	0.352		
Age 3 Sentence complexity score (scale 0 - 12)	1228	0.99 (0.95 – 1.03)	0.583		
Age 3 Verbal cognition (standardised scale)	1225	0.95 (0.82 – 1.11)	0.543		
Age 3 Non-verbal cognition (standardised scale)	1300	1.08 (0.93 – 1.26)	0.310		
Age 3 Anxiety (scale 0 - 12)	1330	0.95 (0.90 – 1.02)	0.150		
Age 3 Hyperactivity (scale 0 - 8)	1331	1.03 (0.96 – 1.10)	0.463		
Age 3 Restless (no / sometimes / certainly)	1327	1.10 (0.91 – 1.33)	0.321		
Age 3 Poor concentration (no / sometimes / certainly)	1329	1.04 (0.85 – 1.28)	0.696		
Age 3 Inattentive (no / sometimes / certainly)	1316	1.01 (0.80 – 1.28)	0.910		
Age 3 Height (centimetres)	1144	1.67 (0.10 - 28.34)	0.722		
Age 3 Weight (kilograms)	1169	0.94 (0.88 - 1.01)	0.104		
Age 4 Cognitive ability (g) (standardised scale)	1595	1.01 (0.87 -1.17)	0.869		
Age 4 Verbal cognition (standardised scale)	1678	1.00 (0.86 – 1.15)	0.997		
Age 4 Non-verbal cognition (standardised scale)	1700	1.07 (0.93 – 1.22)	0.329		

Age 4 Problems with eyesight (y/n)	1743	0.68 (0.41 - 1.12)	0.130
Age 4 Number of children's books	1725	0.96 (0.84 - 1.11)	0.589
Age 4 Physical games (standardised scale)	1722	0.98 (0.87 - 1.10)	0.740
Age 4 Use of outdoor toys (always / usually / no)	1729	1.25 (0.98 - 1.62)	0.070†
Age 4 Likes being read to (y/n)	1710	1.95 (0.25 - 15.40)	0.527
Age 4 Ability to sound out letters (no / yes all / yes some)	1686	0.96 (0.82 - 1.11)	0.565
Age 4 Ability to sound out words (no / yes all / yes some)	1689	1.00 (0.75 - 1.33)	0.988
Age 4 Ability to tell what a word means (no / yes all / yes some)	1692	1.31 (0.91 - 1.88)	0.149
Age 4 Restless (no / sometimes / certainly)	1712	1.00 (0.85 - 1.17)	0.954
Age 4 Easily distracted (no / sometimes / certainly)	1708	0.99 (0.83 - 1.18)	0.925
Age 4 Sees task through (no / sometimes / certainly)	1708	0.94 (0.79 - 1.12)	0.477
Age 4 Inattentive (no / sometimes / certainly)	1689	1.06 (0.85 - 1.32)	0.599
Age 4 Picture vocabulary total score (scale 0 - 8)	1708	0.99 (0.90 - 1.09)	0.852
Age 4 Vocabulary total score (scale 0 - 48)	1719	1.00 (0.98 - 1.02)	0.784
Age 4 Anxiety (scale 0 - 10)	1710	0.99 (0.92 - 1.06)	0.744
Age 4 Hyperactivity (scale 0 - 8)	1713	1.02 (0.96 - 1.09)	0.514
Age 4 Height (centimetres)	1451	0.28 (0.02 - 3.27)	0.312
Age 4 Weight (kilograms)	1481	0.97 (0.92 - 1.02)	0.242

Preschool factors

¹ Adjusted for family relatedness ² Adjusted for age at refraction, sex, family relatedness, significant factors in univariable analyses & factors significant in adjusted analyses at any earlier life stages. Significance thresholds: * = p-value <0.05, † = p-value <0.10. Abbreviations: OR = odds ratio, CI = confidence interval, g = composite score of cognitive ability.