

Online supplementary table 8. Univariable and multivariable generalised linear mixed models for the associations between insulin treatment in hyperglycaemic infants and Movement Assessment Battery for Children (MABC-2) score at 6.5 years of age in children born extremely preterm.

Hyperglycaemia definition		Mean MABC-2 score		Univariable		Multivariable			
		No insulin (n)	Insulin (n)	Difference in mean scores (95% CI)	P value	Difference in mean scores* (95% CI)	P value	Difference in mean scores† (95% CI)	P value
>8 mmol/L	at least once	66.21 (257)	54.44 (44)	-11.77 (-17.75 to -5.79)	<0.001	-5.66 (-12.79 to 1.47)	0.119	-3.75 (-10.92 to 3.42)	0.304
	on ≥2 consecutive days	64.76 (172)	55.07 (44)	-9.69 (-16.06 to -3.31)	0.003	-4.98 (-12.33 to 2.37)	0.183	-3.46 (-10.96 to 4.03)	0.363
	on ≥3 consecutive days	64.03 (101)	53.68 (40)	-10.36 (-17.32 to -3.39)	0.004	-7.85 (-16.18 to 0.48)	0.065	-5.49 (-14.66 to 3.67)	0.238
>10 mmol/L	at least once	65.08 (187)	54.54 (44)	-10.54 (-16.88 to -4.20)	0.001	-3.84 (-11.40 to 3.72)	0.318	-0.85 (-8.62 to 6.91)	0.829
	on ≥2 consecutive days	62.80 (99)	54.27 (43)	-8.53 (-15.31 to -1.74)	0.014	-3.96 (-11.70 to 3.79)	0.315	-1.62 (-9.95 to 6.72)	0.702
	on ≥3 consecutive days	62.27 (53)	53.26 (36)	-9.01 (-17.22 to -0.80)	0.032	-6.50 (-16.16 to 3.16)	0.185	-3.55 (-13.97 to 6.86)	0.499
>12 mmol/L	at least once	63.06 (128)	55.27 (43)	-7.79 (-14.61 to -0.96)	0.026	-3.41 (-11.77 to 4.96)	0.422	-0.83 (-9.36 to 7.70)	0.848
	on ≥2 consecutive days	62.59 (51)	55.31 (38)	-7.28 (-15.12 to 0.56)	0.068	-5.22 (-14.27 to 3.84)	0.255	-3.11 (-12.96 to 6.74)	0.532

Hyperglycaemia definition	Mean MABC-2 score		Univariable		Multivariable			
	No insulin (n)	Insulin (n)	Difference in mean scores (95% CI)	P value	Difference in mean scores* (95% CI)	P value	Difference in mean scores† (95% CI)	P value
on ≥ 3 consecutive days	67.80 (17)	53.72 (25)	-14.08 (-26.66 to -1.50)	0.029	-10.54 (-25.03 to 3.95)	0.149	-7.42 (-22.75 to 7.91)	0.332
at least once	60.50 (85)	55.17 (41)	-5.33 (-13.16 to 2.50)	0.180	1.47 (-6.94 to 9.87)	0.730	3.21 (-5.57 to 11.99)	0.470
>14 mmol/L on ≥ 2 consecutive days	65.00 (27)	53.83 (27)	-11.17 (-20.83 to -1.51)	0.024	-4.91 (-15.68 to 5.86)	0.364	-4.21 (-14.51 to 6.09)	0.414
on ≥ 3 consecutive days	63.80 (5)	48.94 (16)	-14.86 (-38.10 to 8.38)	0.197	-14.93 (-42.88 to 13.03)	0.276	-13.33 (-42.79 to 16.13)	0.346

Random intercepts were used to account for the clustering effects of twins/triplets and treating hospital.

* Adjusted for duration of hyperglycaemia (according to respective definition) during the first 28 postnatal days and age at follow-up.

† Adjusted for gestational age at birth, durations of mechanical ventilation and steroid treatments during the first 14 postnatal days, surgery due to patent ductus arteriosus or necrotising enterocolitis during the first 14 postnatal days, and duration of hyperglycaemia (according to respective definition) during the first 28 postnatal days.