

**Online supplementary table 7.** Univariable and multivariable generalised linear mixed models for the associations between neonatal hyperglycaemia (>12 and >14 mmol/L) and Motor Assessment Battery for Children 2 (MABC-2) score at 6.5 years of age in children born extremely preterm.

Hyperglycaemia definition	Mean MABC-2 score		Univariable		Multivariable		
	No hyperglycaemia (n)	Hyperglycaemia (n)	Difference in mean scores (95% CI)	P value	Difference in mean scores (95% CI)	P value	
<b>&gt;12 mmol/L</b>	at least once	70.01 (174)	61.37 (171)	-8.64 (-12.45 to -4.82)	<0.001	-4.88 (-8.81 to -0.95)	0.015
	on $\geq 2$ consecutive days	67.95 (256)	59.07 (89)	-8.88 (-13.28 to -4.47)	<0.001	-5.84 (-10.29 to -1.40)	0.010
	on $\geq 3$ consecutive days	66.65 (303)	58.62 (42)	-8.03 (-13.86 to -2.19)	0.007	-2.05 (-7.86 to 3.76)	0.489
	Days with hyperglycaemia (per 1 day increase)	-	-	-1.37 (-1.92 to -0.83)	<0.001	-0.93 (-1.52 to -0.34)	0.002
<b>&gt;14 mmol/L</b>	at least once	69.40 (219)	59.28 (126)	-10.12 (-14.08 to -6.16)	<0.001	-6.90 (-10.95 to -2.85)	0.001
	on $\geq 2$ consecutive days	66.93 (291)	58.86 (54)	-8.07 (-13.26 to -2.87)	0.002	-3.10 (-8.26 to 2.05)	0.237
	on $\geq 3$ consecutive days	66.62 (324)	50.93 (21)	-15.69 (-23.46 to -7.93)	<0.001	-10.73 (-18.38 to -3.09)	0.006

Hyperglycaemia definition	Mean MABC-2 score		Univariable		Multivariable	
	No hyperglycaemia (n)	Hyperglycaemia (n)	Difference in mean scores (95% CI)	P value	Difference in mean scores (95% CI)	P value
Days with hyperglycaemia (per 1 day increase)	-	-	-2.00 (-2.73 to -1.28)	<0.001	-1.47 (-2.21 to -0.72)	<0.001

A random intercept was used to account for the clustering effect of twins/triplets. Adjusted for gestational age at birth, sex, occurrence of intraventricular haemorrhage grade 3-4 and/or periventricular leukomalacia, 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, number of culture-verified sepsis episodes during the first 14 postnatal days, educational status of the mother, and age at follow-up. MABC-2 total scores  $\leq 75$  and  $\leq 68$  are equivalent to  $\leq 15$ th centile (borderline motor impairment) and  $\leq 5$ th centile (developmental coordination disorder) in Swedish children, respectively.