

Online supplementary table 3. Univariable and multivariable generalised linear mixed models for the associations between neonatal hyperglycaemia (>12 and >14 mmol/L) and survival without moderate to severe neurodevelopmental disability at 6.5 years of age in children born extremely preterm.

Hyperglycaemia definition	Survival without moderate to severe NDD		Crude OR (95% CI)	P value	aOR (95% CI)	P value	
	No hyperglycaemia	Hyperglycaemia					
>12 mmol/L	at least once	154/255 (60.4%)	139/278 (50.0%)	0.66 (0.46 to 0.94)	0.022	1.06 (0.69 to 1.62)	0.798
	on ≥ 2 consecutive days	218/368 (59.2%)	75/154 (48.7%)	0.66 (0.45 to 0.97)	0.035	1.04 (0.65 to 1.64)	0.881
	on ≥ 3 consecutive days	262/430 (60.9%)	31/80 (38.8%)	0.41 (0.25 to 0.68)	0.001	1.48 (0.83 to 2.65)	0.183
	Days with hyperglycaemia (per 1 day increase)	-	-	0.92 (0.88 to 0.97)	0.002	1.02 (0.96 to 1.08)	0.586
>14 mmol/L	at least once	189/315 (60.0%)	104/218 (47.7%)	0.61 (0.43 to 0.88)	0.007	1.22 (0.80 to 1.88)	0.357
	on ≥ 2 consecutive days	249/427 (58.3%)	44/95 (46.3%)	0.62 (0.39 to 0.98)	0.042	0.98 (0.57 to 1.67)	0.936
	on ≥ 3 consecutive days	279/469 (59.5%)	14/41 (34.1%)	0.36 (0.18 to 0.71)	0.004	1.56 (0.71 to 3.42)	0.264

Hyperglycaemia definition	Survival without moderate to severe NDD		Crude OR (95% CI)	P value	aOR (95% CI)	P value
	No hyperglycaemia	Hyperglycaemia				
Days with hyperglycaemia (per 1 day increase)	-	-	0.90 (0.83 to 0.96)	0.003	1.04 (0.95 to 1.13)	0.400

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, and educational status of the mother.