

Supplement 2.

Table S2.1 Long term neurodevelopmental outcomes in ventilated and non-ventilated infants.

	Non-ventilated	Ventilated	p value
Mortality to 24 months' CA	10 (3.8%)	141 (38%)	<0.01*
Lost to follow up, <i>n</i> (%)	38/251 (15.1)	34/227 (15%)	0.93
Composite cognitive score	n=204	n=184	
- Below -1SD, <i>n</i> (%)	26 (13%)	29 (16%)	0.40
- Below -2SD, <i>n</i> (%)	7 (3%)	2 (1%)	0.13
Composite motor score	n=193	n=179	
- Below -1SD, <i>n</i> (%)	19 (10%)	18 (10%)	0.95
- Below -2SD, <i>n</i> (%)	9 (5%)	4 (2%)	0.20
Cerebral palsy, <i>n</i> (%)	6/208 (3%)	12/193 (6%)	0.11
Visual impairment, <i>n</i> (%)	0/209	1/188 (0.5%)	0.29
Hearing impairment, <i>n</i> (%)	0/208	3/188 (1.6%)	0.07
NDI	31/198 (16%)	40/181 (22%)	0.11

CA: corrected age. IMV only: infants who were mechanically ventilated during admission to the neonatal ward only. NDI: neurodevelopmental impairment, defined as having a composite cognitive score < -1 SD, composite motor score < -1SD, any cerebral palsy, hearing loss despite amplification and/or visual impairment leading to blindness or light perception in one or both eyes.

Table S2.2. Odds ratio (OR) indicating the association between ventilated and non-ventilated infants and the outcome measure in the pooled imputed cohort

	OR	95% CI	p-value		aOR^a	95% CI	p-value		aOR^b	95% CI	p-value
CCS < -1SD	1.29	0.73, 2.27	0.38		1.03	0.57, 1.87	0.91		1.01	0.55, 1.87	0.97
CMS < -1SD	1.42	0.73, 2.77	0.30		1.12	0.54, 2.33	0.77		1.10	0.51, 2.39	0.81
Cerebral palsy	1.96	0.70, 5.50	0.20		2.88	0.99, 8.38	0.05		3.16	1.04, 2.10	0.04*
NDI	1.39	0.81, 2.27	0.19		1.21	0.73, 2.01	0.47		1.18	0.78, 1.10	0.93
Mortality or NDI	3.97	2.70, 5.82	<0.001		2.85	1.89, 4.28	<0.001		2.27	1.47, 3.51	<0.001

^aAdjusted for gestational age, small for gestational age and socio-economic status. ^bAdjusted for the variables gestational age, small for gestational age, socio-economic status, necrotizing enterocolitis \geq grade 2, culture proven sepsis and intraventricular hemorrhage \geq grade 3. CCS: composite cognitive score. CMS: composite motor score. NDI: neurodevelopmental impairment defined as having a CCS < -1 SD, CMS < -1SD, a cerebral palsy (CP), hearing loss despite amplification and/or visual impairment leading to blindness or light perception in one or both eyes. Mortality or NDI: combined outcome measure mortality or NDI. *Significant association.