

Supplementary Table 1. Summaries of characteristics for children with and without a parental screening questionnaire (cognitive domain of either ASQ or PARCA-R)

Either ASQ-3 OR PARCA-R completed	Yes <i>n</i> = 115	No <i>n</i> = 96
Gestational age (completed weeks)	26.5 (1.8)	26.2 (1.9)
Birthweight (g)	832 (161)	855 (193)
Male	56/115 (49%)	51/96 (53%)
Maternal age (years)	32.5 (5.3)	32.0 (5.8)
Lower maternal education (<Year 12)	12/110 (11%)	10/65 (15%)
English only spoken at home	90/115 (78%)	49/96 (51%)
Cerebral palsy at 2 years	5/114 (4%)	8/95 (8%)
Blind at 2 years	0/115 (0%)	1/96 (1%)
Deaf at 2 years	1/115 (1%)	2/96 (2%)

Data are presented as mean (SD) for continuous measures, and *n*/total responders (%) for categorical measures.

Supplementary Table 2. Number of children above and below the cut-offs for moderate or severe delay on each assessment

	Cognitive Domain		Language Domain		
	Bayley-III Delay	Bayley-III No delay	Bayley-III Delay	Bayley-III No delay	
PARCA-R Delay	8	6	PARCA-R Delay	8	0
PARCA-R No delay	6	73	PARCA-R No delay	3	73
ASQ-3 Delay	10	19	ASQ-3 Delay	10	16
ASQ-3 No delay	2	63	ASQ-3 No delay	5	56
Delay on either questionnaire	11	16	Delay on either questionnaire	9	13
No delay on either questionnaire	1	44	No delay on either questionnaire	1	42

Nb: Cut off = <-2SD below the mean. Control data was used to calculate cut-offs for the Bayley Scales of Infant and Toddler Development, Third Edition (Bayley-III). Published norms were used to calculate cut offs for the Parent Report of Children's Abilities-Revised (PARCA-R) and the Ages & Stages Questionnaires Third Edition (ASQ-3), as per their respective manuals

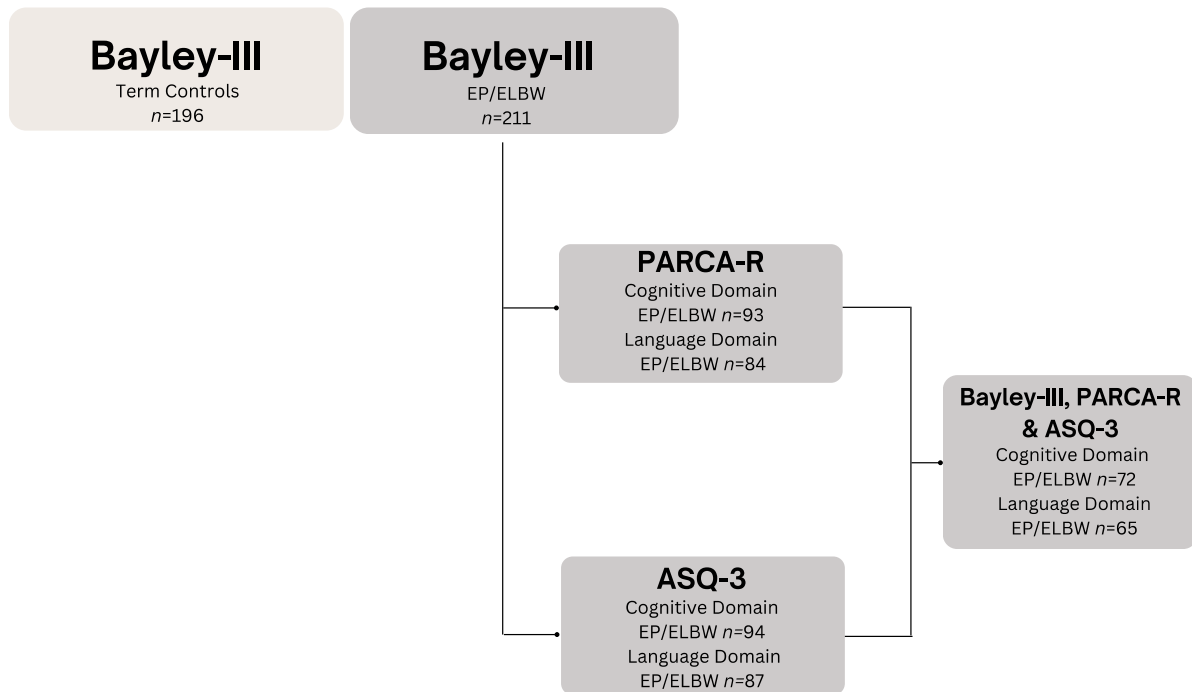
Supplementary Table 3. Diagnostic utility of screening questionnaires to detect moderate/severe delay, as defined by the Bayley-III

Screening Tool	Domain	n (%)	Sens % [95% CI]	Spec % [95%CI]	PPV % [95%CI]	NPV % [95%CI]	Kappa [95%CI]	p-value
PARCA-R	Cognitive	93 (44)	57.1 [28.9, 82.3]	92.4 [84.2, 97.2]	57.1 [28.9, 82.3]	92.4 [84.2, 97.2]	0.50 [0.30, 0.70]	1.00
	Language	84 (40)	72.7 [39.0, 94.0]	100 [95.1, 100]	100 [63.1, 100]	96.1 [88.9, 99.2]	0.82 [0.61, 1.03]	0.25
ASQ-3	Cognitive	94 (45)	83.3 [51.6, 97.9]	76.8 [66.2, 85.4]	34.5 [17.9, 54.3]	96.9 [89.3, 99.6]	0.37 [0.20, 0.54]	<0.01
	Language	87 (41)	66.7 [38.4, 88.2]	77.8 [66.4, 86.7]	38.5 [20.2, 59.4]	91.8 [81.9, 97.3]	0.34 [0.14, 0.54]	0.03
PARCA-R & ASQ-3	Cognitive	72 (34)	91.7 [61.5, 99.8]	73.3 [60.3, 83.9]	40.7 [22.4, 61.2]	97.8 [88.2, 99.9]	0.43 [0.23, 0.63]	<0.01
	Language	65 (31)	90.0 [55.5, 99.7]	76.4 [63.0, 86.8]	40.9 [20.7, 63.6]	97.7 [87.7, 99.9]	0.45 [0.24, 0.66]	<0.01

Nb: Cut off = <-2SD below the mean. Control data was used to calculate cut-offs for the Bayley Scales of Infant and Toddler Development, Third Edition (Bayley-III). Published norms were used to calculate cut offs for the Parent Report of Children's Abilities-Revised (PARCA-R) and the Ages & Stages Questionnaires Third Edition (ASQ-3), as per their respective manuals. p-values are from the McNemar test.

Sens= Sensitivity; Spec= Specificity; PPV= Positive Predictive Value; NPV= Negative Predictive Value

Supplementary Figure 1. Participant Flowchart



Bayley-III = Bayley Scales of Infant and Toddler Development, Third Edition; PARCA-R= Parent Report of Children's Abilities-Revised; ASQ-3= Ages & Stages Questionnaires Third Edition; EP/ELBW= Extremely preterm/extremely low birth weight