Supplementary

Table S1 Relationship between risk factors and gestational age in the cohort of 607 infants

Risk factor	Pre-term (<37 weeks)	Term (≥37 weeks)	Total	P value
Maternal risk factors				
Aboriginal	34	39	73	
Torres Strait	1	1	2	
Aboriginal and Torres Strait Islander				0.08
Social issues	41	67	108	0.84
Ex-smoker	6	14	20	
Current smoker	60	99	159	
Smoking history				0.82
Positive drug urine	9	18	27	0.46
Alcohol & drug use	14	33	47	0.24
Chronic disease	155	247	402	0.36
Type 1 diabetes	3	0	3	0.02
Type 2 diabetes	0	0	0	0
Gestational diabetes mellitus	40	56	96	0.23
BMI <18.5 kg/m^2	10	30	40	0.13
BMI 35–39.9 kg/m^2	6	16	22	0.66
BMI >40 kg/m^2	11	12	23	0.24
Antenatal risk factors				
Torch screen	11	25	36	0.67
Toxoplasmosis	0	1	1	
Rubella	0	1	1	
CMV	2	3	5	
Herpes	5	5	10	
HIV	0	1	1	
Syphilis	0	0	0	
Hepatitis	4	12	16	
Epstein-Barr virus	0	0	0	
Varicella	0	1	1	
Genetic screening (antenatal)				
None	199	350	549	
Normal amniocentesis	7	12	19	
Abnormal amniocentesis	1	3	4	
Normal CVS	2	1	3	
Abnormal CVS	1	1	2	
Normal NIPT	12	12	24	
Abnormal NIPT	1	0	1	
Hypertensive conditions				
None	156	328	484	
Pre-existing HTN	7	2	9	0.009
New HTN	13	11	24	0.06
Pre-eclampsia	46	36	82	<0.001
HELLP	1	0	1	0.18
Eclampsia	1	0	1	0.18
Placental abnormalities				
No placental abnormality	47	201	248	
Placental abnormality	178	178	356	<0.001
Head USS				
Normal USS	95	101	196	
Abnormal USS	67	55	122	<0.001
Genetic screening (postnatal)				
None	174	333	507	
CGH				
CGH normal	36	14	69	
CGH abnormal	33	13	27	0.36
Total CGH	50	46	96	
SNP				
SNP normal	0	0	0	
SNP abnormal	0	2	2	0.29
Total SNP	0	2	2	
Recommended post-natal follow-up				
None	2	0	2	0.06
Midwifery in the home	2	0	2	0.18
GP	2	64	66	0.77
Paediatrician	2	11	13	0.09
Midwifery in the home + GP	2	94	96	<0.001
Midwifery in the home + paediatrician	2	2	4	0.27
GP + paediatrician	2	117	119	<0.001
All 3	2	93	95	0.02

BMI, body mass index; CMV, cytomegalovirus; HIV, human immunodeficiency virus; CVS, chorionic villus sampling; NIPT, non-invasive prenatal testing; HTN, hypertension; HELLP, haemolysis, elevated liver enzymes, low platelets USS, ultrasound; CGH, comparative genomic hybridisation; SNP, single-nucleotide polymorphism; GP, general practitioner.

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Table S2 Placental abnormalities identified in the cohort of 607 infants

Placental pathology	Number (n=607), N (%)
None	250 (41.19)
Small placenta	122 (20.10)
Placental infarcts	116 (19.11)
Chorangiosis	1 (0.16)
Placenta praevia	6 (0.99)
Immature	28 (4.61)
Calcifications	2 (0.33)
Placental insufficiency	1 (0.16)
Chorioamnionitis	27 (4.45)
Subchorionic thrombi	8 (1.32)
Fibrin deposition	6 (0.99)
Umbilical cord vasculitis	5 (0.82)
Over-coiled cord	16 (2.64)
Chorionitis	6 (0.99)
Placental vasculitis	4 (0.66)
Haemorrhage	3 (0.49)
Thin umbilical cord	1 (0.16)
Foetal thrombotic vasculopathy	2 (0.33)
Increased syncytial knots	21 (3.46)
Intervillous thrombus	24 (3.95)
Villitis	16 (2.64)
Total	665

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