Supplementary

Table S1 Basic characteristics and differentiation analysis

Variables	Total (n=2610)	Non-NICU (n=1272)	NICU (n=1338)	Statistic	P
Maternal age, Mean ± SD	30.94±4.41	31.07±4.28	30.81±4.52	t=1.45	0.146
Maternal height, Mean ± SD	1.61±0.05	1.61±0.05	1.61±0.05	t=-0.66	0.508
Pre-delivery weight, Mean ± SD	73.15±12.11	74.27±12.37	72.09±11.76	t=4.62	**<0.001**
Pre-delivery BMI, Mean ± SD	28.07±4.33	28.50±4.45	27.67±4.17	t=4.95	**<0.001**
Father's age, Mean ± SD	33.12±5.53	33.33±5.46	32.92±5.60	t=1.90	0.058
Gestational age, Mean ± SD	34.55±2.22	35.61±1.09	33.54±2.54	t=27.27	**<0.001**
Birth weight, Mean ± SD	2.18±0.57	2.44±0.37	1.93±0.60	t=26.22	**<0.001**
Time of PROM, M (IQR)	0.00 (0.00, 0.33)	0.00 (0.00, 0.39)	0.00 (0.00, 0.25)	Z=-2.55	**0.011**
Time to start breastfeeding, M (IQR)	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)	0.00 (0.00, 0.00)	Z=-12.79	**<0.001**
Apgar Score 1 minute, M (IQR)	9.00 (8.00, 9.00)	9.00 (9.00, 9.00)	9.00 (8.00, 9.00)	Z=-19.10	**<0.001**
Apgar Score 5-minute, M (IQR)	10.00 (9.00, 10.00)	10.00 (10.00, 10.00)	10.00 (9.00, 10.00)	Z=-18.94	**<0.001**
Apgar Score 10-minute, M (IQR)	10.00 (10.00, 10.00)	10.00 (10.00, 10.00)	10.00 (9.00, 10.00)	Z=-16.54	**<0.001**
Mother's Ethnicity, n (%)				χ^2=4.18	0.124
The Han Chinese	2230 (85.44)	1076 (84.59)	1154 (86.25)		
Uyghur	97 (3.72)	43 (3.38)	54 (4.04)		
Tibetan	283 (10.84)	153 (12.03)	130 (9.72)		
Father's Ethnicity, n (%)				χ^2=5.24	0.073
The Han Chinese	2268 (86.90)	1086 (85.38)	1182 (88.34)		
Uyghur	88 (3.37)	46 (3.62)	42 (3.14)		
Tibetan	254 (9.73)	140 (11.01)	114 (8.52)		
Number of fetuses, n (%)				χ^2=13.19	**0.001**
Singleton pregnancy	1737 (66.55)	817 (64.23)	920 (68.76)		
twin pregnancy	863 (33.07)	454 (35.69)	409 (30.57)		
multiple pregnancy	10 (0.38)	1 (0.08)	9 (0.67)		
Prenatal checkup, n (%)				χ^2=355.17	**<0.001**
No	545 (20.88)	70 (5.50)	475 (35.50)		
Yes	2065 (79.12)	1202 (94.50)	863 (64.50)		
Infectious diseases, n (%)				χ^2=1.47	0.225
No	2589 (99.20)	1259 (98.98)	1330 (99.40)		
Yes	21 (0.80)	13 (1.02)	8 (0.60)		
Concurrent diabetes, n (%)				χ^2=0.29	0.591
No	2464 (94.41)	1204 (94.65)	1260 (94.17)		
Yes	146 (5.59)	68 (5.35)	78 (5.83)		
PROM, n (%)				χ^2=10.77	**0.001**
No	1829 (70.08)	853 (67.06)	976 (72.94)		
Yes	146 (5.59)	419 (32.94)	362 (27.06)		
Anemia, n (%)				χ^2=0.74	0.391
No	2460 (94.25)	1204 (94.65)	1256 (93.87)		
Yes	150 (5.75)	68 (5.35)	82 (6.13)		
Thyroid Diseases, n (%)				χ^2=4.96	0.084
No	2441 (93.52)	1193 (93.79)	1248 (93.27)		
Hyperthyroidism	12 (0.46)	2 (0.16)	10 (0.75)		
Hypothyroidism	157 (6.02)	77 (6.05)	80 (5.98)		
Concurrent hypertension, n (%)				χ^2=16.58	**<0.001**
No	2334 (89.43)	1169 (91.90)	1165 (87.07)		
Gestational Hypertension	93 (3.56)	32 (2.52)	61 (4.56)		
Preeclampsia	183 (7.01)	71 (5.58)	112 (8.37)		
Autoimmune diseases, n (%)				-	>0.999
No	2608 (99.92)	1271 (99.92)	1337 (99.93)		
Yes	2 (0.08)	1 (0.08)	1 (0.07)		
Glucocorticoids, n (%)				χ^2=14.99	**<0.001**
No	708 (27.13)	389 (30.58)	319 (23.84)		
Yes	1902 (72.87)	883 (69.42)	1019 (76.16)		
Fever, n (%)				χ^2=6.80	**0.009**
No	2482 (95.10)	1224 (96.23)	1258 (94.02)		
Yes	128 (4.90)	48 (3.77)	80 (5.98)		
PROM, n (%)				χ^2=10.77	**0.001**
No	1829 (70.08)	853 (67.06)	976 (72.94)		
Yes	781 (29.92)	419 (32.94)	362 (27.06)		
Gender, n (%)				χ^2=2.71	0.099
Male	1420 (54.41)	713 (56.05)	707 (52.84)		
Female	1190 (45.59)	559 (43.95)	631 (47.16)		
Birth order, n (%)				χ^2=6.21	**0.045**
Single pregnancy	1737 (66.55)	817 (64.23)	920 (68.76)		
The first born	433 (16.59)	229 (18.00)	204 (15.25)		
The second or third child	440 (16.86)	226 (17.77)	214 (15.99)		
Mode of delivery, n (%)				χ^2=4.63	**0.031**
Natural childbirth	699 (26.78)	365 (28.69)	334 (24.96)		
Cesarean section	1911 (73.22)	907 (71.31)	1004 (75.04)		
TTTS, n (%)				χ^2=0.12	0.729
No	2604 (99.77)	1270 (99.84)	1334 (99.70)		
Yes	6 (0.23)	2 (0.16)	4 (0.30)		
MSAF, n (%)				χ^2=46.44	**<0.001**
No	2287 (87.62)	1166 (91.67)	1121 (83.78)		
Grade I	110 (4.21)	24 (1.89)	86 (6.43)		
Grade II	27 (1.03)	8 (0.63)	19 (1.42)		
Grade III	186 (7.13)	74 (5.82)	112 (8.37)		

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