

**Supplementary Table 5-Adjusted associations of prenatal, perinatal, and early childhood factors with metabolic phenotypes of obesity (group of MHNW as the reference), according to the cutoff points established by the World Obesity Federation to categorize childhood BMI status\***

	MUNW		MHO		MUO	
	OR (95%CI)	P	OR (95%CI)	P	OR (95%CI)	P
<b>Maternal age at delivery (year)</b>						
<35	1		1		1	
≥35	0.93 (0.63, 1.36)	0.695	0.67 (0.30, 1.50)	0.332	0.39 (0.09, 1.68)	0.204
<b>Maternal education</b>						
High School or less	1		1		1	
Undergraduate	1.37 (0.94, 1.98)	0.102	0.90 (0.47, 1.71)	0.742	1.41 (0.49, 4.05)	0.519
Graduate or above	1.55 (0.96, 2.50)	0.074	1.19 (0.47, 2.98)	0.718	0.50 (0.10, 2.57)	0.404
<b>Annual family income (RMB)</b>						
<10,000	1		1		1	
10,000-20,000	0.92 (0.73, 1.17)	0.494	1.20 (0.75, 1.95)	0.448	1.34 (0.68, 2.66)	0.402
≥20,000	0.83 (0.64, 1.09)	0.176	1.39 (0.82, 2.37)	0.219	1.52 (0.72, 3.22)	0.269
<b>Prepregnancy BMI (kg/m<sup>2</sup>)</b>						
<18.5	0.94 (0.69, 1.29)	0.712	0.85 (0.35, 2.07)	0.727	0.47 (0.11, 2.04)	0.315
18~23	1		1		1	
23~27.5	1.14 (0.90, 1.44)	0.270	2.03 (1.27, 3.22)	0.003	1.40 (0.74, 2.66)	0.307
≥27.5	1.32 (0.92, 1.89)	0.138	3.56 (2.02, 6.29)	<0.001	3.20 (1.47, 6.94)	0.003
<b>Gestational weight gain</b>						
Inadequate	0.92 (0.74, 1.14)	0.423	0.49 (0.28, 0.86)	0.012	0.77 (0.38, 1.55)	0.461
Appropriate	1		1		1	
Excessive	1.04 (0.82, 1.34)	0.730	1.27 (0.82, 1.95)	0.284	1.51 (0.81, 2.84)	0.197
<b>Maternal history of gestational diabetes mellitus</b>						
Without	1		1		1	

With	1.09 (0.76, 1.56)	0.637	0.56 (0.24, 1.27)	0.163	1.23 (0.51, 2.97)	0.649
<b>Gravidity</b>						
1	1		1		1	
≥2	1.13 (0.92, 1.38)	0.252	1.28 (0.86, 1.90)	0.227	1.21 (0.70, 2.09)	0.491
<b>Delivery mode</b>						
Vaginal delivery	1		1		1	
Cesarean delivery	0.89 (0.74, 1.07)	0.203	1.06 (0.72, 1.56)	0.772	1.10 (0.64, 1.89)	0.741
<b>Gestational age</b>						
Preterm	1.36 (0.77, 2.39)	0.288	1.74 (0.63, 4.85)	0.287	1.87 (0.51, 6.92)	0.346
Full-term	1		1		1	
<b>Paternal education</b>						
High School or less	1		1		1	
Undergraduate	1.04 (0.75, 1.46)	0.807	0.98 (0.53, 1.80)	0.939	1.47 (0.56, 3.84)	0.433
Graduate or above	1.09 (0.70, 1.68)	0.713	0.44 (0.17, 1.15)	0.093	1.71 (0.49, 5.89)	0.398
<b>Family history of metabolic disturbances</b>						
Without	1		1		1	
With	0.92 (0.76, 1.10)	0.347	0.85 (0.58, 1.24)	0.401	0.71 (0.42, 1.21)	0.210
<b>Child sex</b>						
Male	0.83 (0.69, 0.99)	0.040	1.09 (0.75, 1.57)	0.653	1.19 (0.71, 1.98)	0.510
Female	1		1		1	
<b>Birth weight (g)</b>						
<2500	1.00 (0.50, 2.02)	0.993	1.3 (0.36, 4.74)	0.693	1.04 (0.17, 6.42)	0.965
2500~3999	1		1		1	
≥4000	0.85 (0.60, 1.20)	0.356	1.64 (0.98, 2.73)	0.061	1.61 (0.8, 3.25)	0.181
<b>Breastfeeding duration (month)</b>						
<6	1		1		1	

$\geq 6$	0.95 (0.79, 1.15)	0.614	0.99 (0.68, 1.44)	0.969	0.65 (0.39, 1.08)	0.097
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\*2145 (71.1%), 659 (21.9%), 141 (4.7%), and 70 (2.3%) children were classified as MHNW, MUNW, MHO, and MUO, respectively.