

Table S1. Characteristics among mothers who were in the cases and mothers who were excluded in the controls due to diagnosed congenital abnormalities after birth.

Characteristics	Cases (N = 474)	Excluded Controls (N = 108)	p*
Socio-demographic characteristics, n (%)			
Maternal age ≥ 30 years	159 (33.5)	38 (35.2)	0.745
Rural residence	161 (34.0)	37 (34.3)	0.954
Maternal occupation, farmers	234 (49.5)	43 (39.8)	0.073
Maternal education, junior high school or below	195 (41.1)	44 (40.7)	0.939
Nulliparity	274 (57.8)	62 (57.4)	0.940
Maternal health-related factors during the first trimester, n (%)			
Folate supplements use	292 (61.6)	61 (56.5)	0.325
Anemia	80 (16.9)	17 (15.7)	0.775
Passive smoking	159 (33.5)	42 (38.9)	0.292
Medication use	197 (41.6)	44 (40.7)	0.876
Neonatal gender, male, n (%)	248 (52.3)	61 (56.5)	0.434
Daily nutrient intakes during pregnancy, mean (SD)			
Energy (kcal)	1860.5 (868.0)	1839.4 (879.6)	0.775
Folate (μg)	219.4 (93.4)	215.4 (102.2)	0.699
Calcium (mg)	421.9 (187.9)	388.1 (182.4)	0.272
Iron (mg)	19.1 (8.7)	18.5 (8.9)	0.628

* Categorical variables are compared between groups by χ^2 test, and continuous variables are compared between groups by *t* test.

Table S2. Dietary pattern scores according to participant characteristics among the cases and controls.

Characteristics	Prudent pattern		Vegetarian pattern		Dairy and egg pattern	
	Case	Control	Case	Control	Case	Control
Socio-demographic characteristics						
Maternal age (years)						
< 30	- 0.51	- 0.12	- 0.06	- 0.21	- 0.56	0.18
≥ 30	- 0.51	- 0.10	- 0.04	- 0.29	- 0.46	0.15
<i>p</i> ²	0.600	0.780	0.659	0.268	0.622	0.322
Residence						
Rural	- 0.62	- 0.28	- 0.01	- 0.09	- 0.70	0.06
Urban	- 0.27	- 0.03	- 0.14	- 0.30	- 0.28	0.23
<i>p</i> ²	< 0.001	< 0.001	0.024	0.028	< 0.001	0.007
Maternal occupation						
Farmers	- 0.63	- 0.21	- 0.01	- 0.23	- 0.74	0.11
Others	- 0.41	- 0.08	- 0.16	- 0.37	- 0.34	0.19
<i>p</i> ²	< 0.001	0.012	0.023	0.029	< 0.001	0.014
Maternal education						
Junior high school or below	- 0.69	- 0.28	- 0.01	- 0.11	- 0.94	0.02
Senior high school or above	- 0.33	- 0.08	- 0.11	- 0.27	- 0.31	0.23

<i>p</i> ²	< 0.001	< 0.001	0.033	0.018	< 0.001	0.004
Parity						
0	- 0.44	- 0.11	- 0.07	- 0.26	- 0.36	0.22
≥ 1	- 0.62	- 0.22	- 0.04	- 0.23	- 0.83	0.02
<i>p</i> ²	0.002	0.027	0.316	0.231	< 0.001	< 0.001
Maternal health-related factors during the first trimester						
Folate supplements use						
Yes	- 0.47	- 0.11	- 0.03	- 0.29	- 0.44	0.18
No	- 0.56	- 0.14	- 0.07	- 0.20	- 0.60	0.16
<i>p</i> ²	0.102	0.540	0.091	0.509	0.071	0.339
Anemia						
Yes	- 0.51	- 0.19	- 0.04	- 0.23	- 0.63	0.11
No	- 0.50	- 0.11	- 0.05	- 0.26	- 0.46	0.19
<i>p</i> ²	0.287	0.606	0.175	0.283	0.215	0.153
Passive smoking						
Yes	- 0.55	- 0.20	- 0.03	- 0.23	- 0.58	0.14
No	- 0.45	- 0.11	- 0.07	- 0.27	- 0.48	0.19
<i>p</i> ²	0.416	0.244	0.615	0.325	0.196	0.302
Medication use						
Yes	- 0.55	- 0.13	- 0.03	- 0.20	- 0.48	0.14
No	- 0.45	- 0.15	- 0.07	- 0.29	- 0.58	0.21
<i>p</i> ²	0.227	0.139	0.338	0.227	0.487	0.253
Neonatal gender						
Male	- 0.48	- 0.16	- 0.08	- 0.18	- 0.52	0.16
Female	- 0.56	- 0.09	- 0.03	- 0.24	- 0.53	0.18
<i>p</i> ²	0.088	0.170	0.846	0.161	0.742	0.818
Daily nutrient intakes during pregnancy³						
Energy						
Tertile 1	- 0.74	- 0.43	- 0.39	- 0.81	- 0.84	- 0.04
Tertile 2	- 0.32	- 0.07	0.10	- 0.17	- 0.39	0.36
Tertile 3	0.48	0.68	0.89	0.70	0.01	0.41
<i>p</i> ⁴	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Folate						
Tertile 1	- 0.01	- 0.08	- 0.34	- 0.18	- 0.44	- 0.21
Tertile 2	- 0.06	0.23	0.14	- 0.11	- 0.57	0.46
Tertile 3	0.60	0.90	1.03	0.81	0.06	0.41
<i>p</i> ⁴	< 0.001	< 0.001	< 0.001	< 0.001	0.017	< 0.001
Calcium						
Tertile 1	- 0.69	- 0.42	- 0.27	- 0.71	- 0.85	- 0.27
Tertile 2	- 0.27	- 0.13	0.10	- 0.23	0.02	0.39
Tertile 3	0.58	0.58	0.61	0.43	0.03	0.66
<i>p</i> ⁴	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Iron						
Tertile 1	- 0.70	- 0.37	- 0.39	- 0.83	- 0.73	- 0.08
Tertile 2	- 0.38	- 0.16	0.08	- 0.19	- 0.35	0.41
Tertile 3	0.28	0.50	0.60	0.57	- 0.29	0.32
<i>p</i> ⁴	< 0.001	< 0.001	< 0.001	< 0.001	0.011	< 0.001

¹Values are mean dietary pattern scores obtained by principal component factor analysis and the scores are not adjusted for confounders.

²Mann- Whitney *U* test.

³Participants were grouped into three categories according to the tertiles of daily nutrient intake among the controls.

⁴Test for linear trend.