

Relationship between Dietary Inflammatory Index and Postpartum Depression in Exclusively Breastfeeding Women

Supplementary Materials:

Table S1: Dietary intakes of breastfeeding mothers across tertiles of the DII

Nutrients	DII Tertiles (Mean ± SD)			<i>P</i> value ¹
	Q1	Q2	Q3	
Energy(kcal/d)	2271.93±545.34	1971.26±339.55	1784.06±479.47	<0.001*
Protein(g/d)	92.91±28.27	74.38±16.25	59.62±20.40	<0.001*
Fat(g/d)	85.21±20.07	87.33±12.79	99.55±24.67	<0.001*
Carbohydrate(g/d)	283.45±95.68	252.52±71.49	230.35±90.38	<0.001*
Cholesterol(mg/d)	499.32±234.99	663.01±338.93	711.58±299.85	<0.001*
Dietary Fiber(g/d)	12.99±4.83	8.14±2.38	4.74±2.29	<0.001*
Vitamin A(µg RE/d)	658.76±265.50	406.45±146.82	275.57±112.19	<0.001*
Vitamin B1(mg/d)	0.81±0.24	0.62±0.13	0.48±0.15	<0.001*
Vitamin B2(mg/d)	1.49±0.58	1.16±0.38	0.90±0.46	<0.001*
Niacin(mg/d)	23.39±7.41	18.44±4.27	15.68±4.68	<0.001*
Vitamin C(mg/d)	126.69±58.50	65.79±25.21	37.03±20.37	<0.001*
Vitamin E(mg/d)	18.80±8.38	14.02±3.18	9.42±2.65	<0.001*
Iron(mg/d)	22.82±7.32	17.46±5.15	12.76±5.08	<0.001*
Zinc(mg/d)	10.98±3.38	8.17±1.81	6.18±2.02	<0.001*
Saturated fatty acid(g/d)	36.34±9.72	36.34±5.98	41.05±10.34	<0.001*
Monounsaturated fatty acids(g/d)	43.49±10.32	38.09±5.81	37.90±8.56	<0.001*
Polyunsaturated fatty acids(g/d)	11.93±7.06	9.22±1.94	8.38±1.97	<0.001*
Folate(µg/d)	446.64±151.07	318.54±80.10	204.54±144.16	<0.001*

DII, Dietary inflammation index.

1 One-way ANOVA for continuous variables.

* *P*<0.05.

Table S2: Risk factors associated with PPD among exclusively breastfeeding women (n= 293)

	Variables	β	Wald χ^2	OR(95%CI)	<i>P</i> value ¹
Crude Model	DII groups				0.024*
	Q1 VS Q3	-0.66	4.69	0.52(0.29, 0.94)	0.030*
	Q2 VS Q3	-0.78	6.66	0.46(0.25, 0.83)	0.010*
Model1	Age groups (years)				0.344
	≤ 25 VS 36 ~ 45	-0.19	0.09	0.83(0.25, 2.74)	0.759
	26 ~ 35 VS 36 ~ 45	0.32	0.41	1.381(0.51, 3.70)	0.522

Model 2	DII groups			0.016*
	Q1 VS Q3	-0.69	4.59	0.50(0.27, 0.94)
	Q2 VS Q3	-0.90	7.77	0.406(0.21, 0.77)
	Educational levels			0.004*
	Junior high school and below VS Postgraduate and above	2.54	4.72	12.69(1.28, 125.69)
	Specialized degree VS Postgraduate and above	1.00	5.35	2.72(1.17, 6.36)
	Bachelor's degree VS Postgraduate and above	0.17	0.17	1.186(0.520, 2.70)
	Occupational levels Unemployed VS Employed	0.71	6.39	0.49(0.29, 0.85)
	Number of children 1 VS ≥ 2	0.65	5.62	1.91(1.12, 3.26)
	Age groups(years)			0.413
	≤25 VS 36~45	0.03	0.00	1.03 (0.29, 3.67)
	26~35 VS 36~45	0.46	0.73	1.584(0.55, 4.55)
	DII groups			0.013*
	Q1 VS Q3	-0.75	4.72	0.47 (0.24, 0.93)
	Q2 VS Q3	-0.98	8.12	0.38(0.19, 0.74)
	Educational levels			0.031*
	Junior high school and below VS Postgraduate and above	2.38	3.84	10.84(1.00, 117.56)
	Specialized degree VS Postgraduate and above	0.85	3.28	2.341(0.93, 5.88)
	Bachelor's degree VS Postgraduate and above	0.17	0.15	1.187(0.49, 2.86)
	Occupational levels Unemployed VS Employed	-0.74	6.19	0.48(0.27, 0.86)
	Number of children 1 VS ≥ 2	0.74	6.27	2.094(1.17, 3.74))
	Number of caregivers			0.025*
	1 VS ≥ 3	1.37	7.38	3.93(1.46, 10.55)
	2 VS ≥ 3	0.68	3.15	1.98(0.93, 4.19))
	PSSS score levels			
	Low to medium social support VS	0.64	4.43	1.893(1.05, 3.43)
				0.035*

High social support PSQI score levels				
Good sleep quality VS Moderate or poor sleep quality	-0.75	6.64	0.47 (0.27, 0.84)	0.010*

PSSS, Perceived Social Support Scale. PSQI, Pittsburgh Sleep Quality Index. DII, dietary inflammatory index. PPD, postpartum depression.

1 Binary logistic regression.

Crude Model: Unadjusted for any covariate.

Mode 1: Adjusted age($\leq 25, 26 \sim 35, 36 \sim 45$), educational levels (junior high school and below, specialized degree, bachelor's degree, postgraduate and above), occupational levels (employed, unemployed), number of children (1, ≥ 2).

Model 2: Adjusted for age($\leq 25, 26 \sim 35, 36 \sim 45$), educational levels (junior high school and below, specialized degree, bachelor's degree, postgraduate and above), occupational levels (employed, unemployed), number of children (1, ≥ 2), number of postpartum caregivers (1, 2, ≥ 3), PSSS score level (low to medium social support, high social support) and PSQI score level (good sleep quality, moderate or poor sleep quality).

* $P < 0.05$.