

**Supplemental Table S1.** Clinical Characteristics and Metabolic Phenotypes according to  $\Delta$ Matsuda Index Tertiles

Characteristic	$\Delta$ Matsuda index			P value
	Lowest tertile (n=116)	Middle tertile (n=116)	Highest tertile (n=115)	
Gestational Matsuda index	7.6±2.8	4.2±1.9	3.7±1.6	<0.001 <sup>a,b</sup>
Postpartum Matsuda index	4.2±1.8	4.2±1.8	6.6±2.2	<0.001 <sup>b</sup>
$\Delta$ Matsuda index	-3.4±2.0	0.0±0.6	2.9±1.7	<0.001 <sup>a,b</sup>
Age at delivery, yr	32.0±4.2	31.2±4.3	31.7±3.9	0.311
Body mass index, pregestational, kg/m <sup>2</sup>	22.4±3.6	22.3±3.08	22.3±3.3	0.936
Body mass index, postpartum, kg/m <sup>2</sup>	23.6±3.8	23.4±3.2	23.4±3.4	0.865
Gestational weight gain, kg	10.6±4.0	11.7±4.5	11.4±4.5	0.078
SBP, postpartum, mm Hg	110.0±11.1	110.8±11.7	107.8±12.0	0.131
DBP, postpartum, mm Hg	68.4±8.4	68.0±8.4	66.5±8.8	0.207
Parity, n	2.2±1.7	2.1±1.8	1.9±1.4	0.243
Breastfeeding	36 (31.0)	38 (32.8)	36 (31.3)	0.092
Duration of follow-up, yr	3.3±2.0	3.4±2.4	3.4±2.0	0.889
Gestational glycemic measurements phenotypes				
Glucose (fasting), mg/dL	87.1±12.9	92.0±12.7	91.2±11.9	0.007 <sup>a,b</sup>
Glucose (1-hour), mg/dL	179.7±34.2	193.4±29.1	194.4±25.8	<0.001 <sup>a,b</sup>
Glucose (2-hour), mg/dL	173.4±32.6	180.7±30.2	176.0±25.4	0.166
Glucose (3-hour), mg/dL	154.3±25.7	147.8±30.9	144.9±26.1	0.029 <sup>b</sup>
AUC (glucose)	473.8±65.2	494.0±61.6	488.4±48.0	0.027 <sup>a</sup>
Insulin (fasting), $\mu$ IU/mL	5.9±2.5	9.7±4.3	18.1±77.7	0.110
Insulin (1-hour), $\mu$ IU/mL	34.8±18.1	67.8±44.5	83.6±57.7	<0.001 <sup>a,b</sup>
Insulin (2-hour), $\mu$ IU/mL	48.2±27.0	93.9±60.0	110.3±68.4	<0.001 <sup>a,b</sup>
Insulin (3-hour), $\mu$ IU/mL	52.8±26.7	76.7±51.1	90.4±60.1	<0.001 <sup>a,b</sup>
HbA1c	5.1±0.8	5.1±1.1	5.3±0.9	0.354
Postpartum glycemic and lipid phenotypes				
Glucose (fasting), mg/dL	100.4±31.8	96.8±22.9	89.7±10.2	0.002 <sup>b</sup>
Glucose (30-minute), mg/dL	173.2±42.2	167.2±39.7	148.0±23.5	<0.001 <sup>b</sup>
Glucose (60-minute), mg/dL	193.5±70.2	177.6±51.1	151.8±35.1	<0.001 <sup>b</sup>
Glucose (90-minute), mg/dL	173.5±71.6	155.0±50.7	135.1±35.1	<0.001 <sup>a,b</sup>
Glucose (120-minute), mg/dL	155.9±69.7	134.5±49.2	121.6±33.3	<0.001 <sup>a,b</sup>
Insulin (fasting), $\mu$ IU/mL	12.3±7.3	11.4±4.3	8.0±2.8	<0.001 <sup>b</sup>
Insulin (30-minute), $\mu$ IU/mL	42.1±23.2	47.3±31.2	32.3±15.6	<0.001 <sup>b</sup>
Insulin (60-minute), $\mu$ IU/mL	53.6±30.3	61.3±42.0	36.1±17.5	<0.001 <sup>b</sup>
Insulin (90-minute), $\mu$ IU/mL	55.2±33.5	59.8±43.1	33.6±15.2	<0.001 <sup>b</sup>
Insulin (120-minute), $\mu$ IU/mL	54.6±43.9	51.0±33.5	29.9±13.2	<0.001 <sup>b</sup>
Total cholesterol, mg/dL	189.7±34.8	192.2±34.7	193.6±44.8	0.740
Triglycerides, mg/dL	118.5±67.1	133.0±96.2	109.9±81.1	0.099
HDL cholesterol, mg/dL	47.9±11.1	47.7±10.7	50.1±12.8	0.227
LDL cholesterol, mg/dL	118.0±31.1	117.9±32.4	121.5±41.4	0.671

Values are expressed as mean  $\pm$  standard deviation or number (%).  $\Delta$ Matsuda index was defined as the difference between the initial postpartum Matsuda index and the gestational Matsuda index. P values are for analysis of variance (continuous) or linear-by-linear association (dichotomous).

SBP, systolic blood pressure; DBP, diastolic blood pressure; AUC, area under curve; HbA1c, glycated hemoglobin; HDL, high-density lipoprotein; LDL, low-density lipoprotein.

<sup>a</sup>P<0.05 for first vs. second tertile; <sup>b</sup>P<0.05 for first vs. third tertile.