

Supplementary Table 4. Baseline characteristics of subjects at the antepartum and postpartum periods according to ASM/Ht² tertiles

ASM/Ht ² tertiles	Lowest (n=101)	Middle (n=107)	Highest (n=97)	P value
Total number	101	107	97	
Incident prediabetes and T2DM	47 (46.5)	46 (43.0)	61 (62.9)	0.023
Model 1	Ref	0.86 (0.50–1.49)	1.95 (1.10–3.44)	
Model 2	Ref	1.07 (0.54–2.13)	1.55 (0.64–3.73)	
Model 3	Ref	1.12 (0.52–2.45)	2.00 (0.73–5.48)	
BMI <23 kg/m ² (n=169)	96	62	11	
Incident prediabetes and T2DM	45 (46.9)	22 (35.5)	4 (36.4)	0.182
Model 1	Ref	0.62 (0.32–1.20)	0.65 (0.18–2.36)	
Model 2	Ref	0.81 (0.37–1.79)	0.61 (0.11–3.40)	
Model 3	Ref	0.85 (0.35–2.08)	0.84 (0.12–5.74)	
BMI ≥23 kg/m ² (n=136)	5	45	86	
Incident prediabetes and T2DM	2 (40.0)	24 (53.3)	57 (66.3)	0.082
Model 1	Ref	1.71 (0.26–11.26)	2.95 (0.47–18.64)	
Model 2	Ref	3.68 (0.29–47.44)	4.76 (0.36–63.31)	
Model 3	Ref	1.61 (0.09–28.24)	2.69 (0.15–49.03)	
ASM/Ht ² , kg/m ²	5.58±0.28	6.18±0.14 ^a	6.91±0.40 ^{ab}	<0.001
ASM/BMI, m ²	0.71±0.08	0.71±0.07	0.67±0.08 ^a	0.001
Follow-up duration, yr	3.44±2.62	3.52±2.46	2.89±2.22	0.306
Postpartum parameters				
Age, yr	33.7±3.6	35.1±3.3 ^a	35.8±3.9 ^a	<0.001
Height, cm	160.3±4.6	160.8±4.9	160.6±5.7	0.772
Body weight, kg	51.8±5.1	58.9±5.7 ^a	69.1±9.2 ^{ab}	<0.001
BMI, kg/m ²	20.2±1.7	22.8±1.9 ^a	26.8±3.2 ^{ab}	<0.001
Waist circumference, cm	76.8±6.5	81.7±6.9 ^a	90.1±8.9 ^{ab}	<0.001
ASM, kg	14.3±1.5	16.0±1.1 ^a	17.8±1.6 ^{ab}	<0.001
Whole body fat mass, kg	15.8±3.9	19.2±4.6 ^a	25.4±6.9 ^{ab}	<0.001
Estimated visceral fat area, cm ²	65.0±26.7	83.8±29.1 ^a	114.5±32.1 ^{ab}	<0.001
Systolic blood pressure, mm Hg	114.2±15.1	119.5±12.8 ^a	120.7±14.3 ^a	0.003
Diastolic blood pressure, mm Hg	69.4±10.7	71.8±10.9	73.5±11.6 ^a	0.039
Family history of diabetes	52 (52.5)	52 (51.0)	55 (61.1)	0.248
Parity (nullipara)	70 (70.0)	68 (68.7)	59 (56.7)	0.019
Breast feeding	70 (70.7)	68 (68.7)	52 (55.3)	0.016
Fasting plasma glucose, mg/dL	93.1±10.2	93.8±9.7	100.0±12.2 ^a	<0.001
PP 2 hours, mg/dL	138.1±37.4	132.9±32.4	137.8±46.8	0.570
HbA1c, %	5.4±0.3	5.4±0.4	5.6±0.4 ^a	0.001
Insulin, μIU/mL	6.7±2.4	7.9±3.4 ^a	10.6±4.9 ^{ab}	<0.001
C-peptide, ng/mL	1.7±1.2	1.8±0.9	2.5±1.3 ^a	<0.001
HOMA-IR	1.54±0.63	1.86±0.90 ^a	2.68±1.36 ^{ab}	<0.001

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Supplementary Table 4. Continued

ASM/Ht ² tertiles	Lowest (n=101)	Middle (n=107)	Highest (n=97)	P value
HOMA-β	4.54±2.44	5.31±2.23	6.20±2.59 ^a	<0.001
Insulinogenic index	0.42±0.30	0.31±1.22	0.57±0.43	0.110
Total cholesterol, mg/dL	209.2±46.8	208.9±33.1	211.5±48.1	0.906
Triglyceride, mg/dL	91.7±47.1	106.2±60.3	135.1±75.8 ^a	<0.001
HDL cholesterol, mg/dL	65.5±11.9	63.5±15.3	57.6±11.9 ^a	<0.001
LDL cholesterol, mg/dL	118.4±35.7	119.6±27.2	127.8±32.0	0.105
Antepartum parameters				
Fasting plasma glucose, mg/dL	82.8±10.3	86.6±11.5 ^a	90.5±11.1 ^{ab}	<0.001
PP 1 hour, mg/dL	193.2±25.1	189.2±29.4	193.9±22.4	0.381
PP 2 hours, mg/dL	180.6±23.4	174.4±24.3	177.4±33.3	0.262
PP 3 hours, mg/dL	143.9±20.8	145.6±26.2	139.9±34.7	0.410
HbA1c, %	5.1±0.3	5.2±0.4	5.4±0.4 ^a	<0.001
Insulin, μIU/mL	9.4±5.8	11.0±5.2	12.4±5.7 ^a	0.002
C-peptide, ng/mL	2.2±1.5	2.3±1.1	2.9±1.4 ^a	0.002
HOMA-IR	1.93±1.23	2.38±1.14	2.78±1.31 ^a	<0.001
HOMA-β	9.44±21.2	9.98±30.9	11.1±9.5	0.890

Values are presented as number (%), odds ratio (95% confidence interval), or mean±standard deviation. Antepartum and postpartum values were calculated at 24 to 28 weeks of gestation and at 6 to 8 weeks after delivery, respectively. Odds ratio (95% confidence interval) are calculated using a logistic regression model. Model 1 is unadjusted; Model 2 is adjusted for age, family history of diabetes, systolic blood pressure, total fat mass, and waist circumference; and Model 3 is adjusted for the variables listed for Model 2 plus breast feeding, exercise after delivery, fasting plasma glucose concentration during pregnancy, and postpartum BMI change. Statistical significance for linear by linear association between categorical variables was calculated using chi-square tests or ANOVA (Bonferroni method for *post hoc* analysis), with significance set at $P<0.05$. ASM, appendicular skeletal muscle mass; Ht, height; T2DM, type 2 diabetes mellitus; BMI, body mass index; PP, postprandial glucose; HbA1c, glycosylated hemoglobin; HOMA-IR, homeostasis model assessment of insulin resistance; HOMA-β, homeostasis model assessment of β-cell function; HDL, high-density lipoprotein; LDL, low-density lipoprotein.

^aSignificant difference ($P<0.05$) compared to the lowest group, ^bCompared to the middle group.