

**Supplementary Table 1. Demographics of the study participants in the KNHANES**

Characteristic	2016–2019			2020–2021			Total			P-value
	No.	Weighted frequency	Weighted (%)	No.	Weighted frequency	Weighted (%)	No.	Weighted frequency	Weighted (%)	
No.	2,745	3,075,670		1,116	1,378,390		3,861	4,454,060		NA
Male sex	1,440	1,601,017	52.05	613	730,562	53.00	2,053	2,331,579	52.35	0.612
Age group (yr)										0.029
Elementary (10–12)	1,008	929,714	30.23	442	479,445	34.78	1,450	1,409,159	31.64	
Middle school (13–15)	896	961,981	31.28	355	428,245	31.07	1,251	1,390,226	31.21	
High school (16–18)	841	1,183,974	38.49	319	470,700	34.15	1,160	1,654,674	37.15	
Household income										0.108
Low	275	325,530	10.58	90	103,781	7.53	365	429,310	9.64	
Low-middle	676	766,408	24.92	291	360,050	26.12	967	1,126,459	25.29	
Middle-high	876	980,756	31.89	408	502,610	36.46	1,284	1,483,366	33.30	
High	912	995,998	32.38	325	410,224	29.76	1,237	1,406,222	31.57	

KNHANES, Korean National Health and Nutrition Examination Survey; NA, not available.

**Supplementary Table 2. General characteristics of the study participants in the KNHANES**

Characteristic	2016–2019	2020–2021	Total	P-value
Body mass index (kg/m <sup>2</sup> )	21 (20.8–21.2)	21.4 (21.1–21.8)	21.1 (21–21.3)	0.030
Systolic BP (mmHg)	109 (108–109)	108 (108–109)	109 (108–109)	0.930
Diastolic BP (mmHg)	67 (66–67)	67 (67–68)	67 (66–67)	0.133
Hemoglobin A1c (%)	5.36 (5.35–5.38)	5.4 (5.38–5.42)	5.37 (5.36–5.38)	0.005
Fasting blood glucose (mg/dL)	92 (91–92)	92 (92–93)	92 (92–92)	0.113
Total cholesterol (mg/dL)	165 (163–166)	164 (162–166)	164 (163–166)	0.512
HDL-cholesterol (mg/dL)	52 (51–52)	52 (51–52)	52 (51–52)	0.425
Triglyceride (mg/dL)	87 (84–89)	89 (85–93)	87 (85–89)	0.302
LDL-cholesterol_calculated (mg/dL)	95 (94–96)	95 (93–97)	95 (94–96)	0.590

Values are presented as mean weight (95% confidence interval).

KNHANES, Korean National Health and Nutrition Examination Survey; BP, blood pressure; HDL-cholesterol, high-density lipoprotein cholesterol; LDL-cholesterol, low-density lipoprotein cholesterol.

**Supplementary Table 3. Proportion of children's central obesity among parents with central obesity\***

Age group (yr)	WC of mother ≥80 cm			WC of father ≥90 cm		
	2016–2019	2020–2021	P-value	2016–2019	2020–2021	P-value
10–12	14.2%	23.3%	0.033	12.6%	28.7%	0.002
13–15	18.5%	21.7%	0.516	15.5%	16.9%	0.787
16–18	21.2%	26.9%	0.322	19.1%	20.3%	0.869
10–18	18.3%	24.1%	0.070	16.0%	18.2%	0.075

WC, waist circumference.

\*Central obesity was defined WC ≥80 cm in adult female and WC ≥90 cm in adult male.