

Supplementary Table 1. Study population's TyG, AIP, and METS-IR by quartiles of TFQI, TSHI, and TT4RI levels.

	TFQI					TSHI					TT4RI				
	Q1	Q2	Q3	Q4	P value	Q1	Q2	Q3	Q4	P value	Q1	Q2	Q3	Q4	P value
BMI<25															
AIP	-0.440±0.627	-0.380±0.624	-0.346±0.626	-0.308±0.625	P<0.001	-0.423±0.626	-0.382±0.630	-0.362±0.615	-0.307±0.632	P<0.001	-0.416±0.628	-0.382±0.633	-0.364±0.616)	-0.312±0.628	P<0.001
TyG	8.17±0.53	8.21±0.52	8.24±0.53	8.27±0.53	P<0.001	8.18±0.54	8.21±0.53	8.23±0.52	8.28±0.53	P<0.001	8.18±0.54	8.21±0.53	8.23±0.53	8.27±0.53	P<0.001
METS-IR	30.1±4.7	30.3±4.7	30.5±4.8	30.3±8.2	P<0.001	30.2±4.7	30.3±4.8	30.4±4.8	30.3±8.2	P=0.084	30.2±4.7	30.3±4.8	30.4±4.8	30.3±8.2	P=0.370
25≤BMI<29.9															
AIP	0.213±0.650	0.222±0.659	0.257±0.657	0.309±0.674	P<0.001	0.217±0.657	0.251±0.654	0.246±0.666	0.287±0.665	P=0.002	0.220±0.660	0.259±0.651	0.243±0.675	0.280±0.659	P=0.011
TyG	8.68±0.58	8.69±0.60	8.72±0.61	8.77±0.63	P<0.001	8.69±0.60	8.71±0.60	8.71±0.62	8.75±0.61	P<0.001	8.69±0.60	8.71±0.60	8.71±0.62	8.75±0.61	P=0.006
METS-IR	40.9±4.5	40.9±4.7	41.0±4.7	41.4±6.4	P<0.001	40.9±4.6	41.1±4.6	41.0±4.7	41.2±6.4	P=0.268	40.9±4.7	41.1±4.6	41.0±4.7	41.2±6.4	P=0.296
BMI≥30															
AIP	0.405±0.678	0.437±0.618	0.521±0.636	0.544±0.640	P<0.001	0.409±0.659	0.512±0.666	0.453±0.624	0.533±0.628	P=0.007	0.419±0.667	0.513±0.655	0.443±0.626	0.532±0.628	P=0.010
TyG	8.85±0.62	8.86±0.60	8.93±0.61	9.00±0.67	P<0.001	8.84±0.62	8.94±0.64	8.87±0.61	9.00±0.63	P<0.001	8.85±0.62	8.93±0.63	8.87±0.63	8.99±0.62	P<0.001
METS-IR	50.4±6.0	50.4±6.0	51.0±6.0	51.6±7.0	P=0.004	50.4±6.0	50.9±6.2	50.7±6.0	51.5±6.8	P=0.056	50.5±6.0	50.8±6.1	50.8±6.1	51.4±6.8	P=0.084

Data were expressed as mean ± SD. P values for TyG and AIP were calculated using ANOVA test, and P values for METS-IR were calculated using Kruskal–Wallis test. BMI, body mass index; TyG, the Triglyceride–Glucose Index; AIP, the Atherogenic Index of Plasma; METS-IR, the Metabolic Score for Insulin Resistance; TFQI, the Thyroid Feedback Quantile-based Index; TSHI, the TSH Index; TT4RI, the Thyrotrophic T4 Resistance Index; Q1, quartile 1; Q2, quartile 2; Q3, quartile 3; Q4, quartile 4.