

Supplementary Table 1 Results of univariate meta-regression analysis

Variables	MD for the influence of SGLT2 inhibitors on HOMA- β							
	HOMA-IR							
	Coefficient	95% CI	P values	Adjusted	Coefficient	95% CI	P values	Adjusted R ²
R²								
Sample size	0.0016	-0.0012 to 0.0044	0.24	7.0%	0.058	-0.017 to 0.133	0.12	15.4%
Mean age (years)	-0.021	-0.090 to 0.048	0.53	-10.6%	-0.84	-3.10 to 1.41	0.44	-5.7%
Men (%)	0.0028	-0.0263 to 0.0318	0.84	-5.7%	-0.21	-0.54 to 0.12	0.19	15.9%
Baseline HbA1c (%)	0.19	-0.84 to 1.21	0.71	-7.9%	-1.25	-18.31 to 15.81	0.88	-7.6%
T2D duration (years)	-0.031	-0.176 to 0.114	0.65	-11.4%	0.10	-1.31 to 1.51	0.88	-8.0%
Treatment duration (weeks)	-0.031	-0.068 to 0.005	0.09	1.3%	0.18	-0.04 to 0.41	0.11	15.6%

MD, mean difference; CI, confidence interval; T2D, type 2 diabetes; SGLT2, sodium glucose transporter 2; HOMA-IR, homeostasis model assessment of insulin resistance; HOMA- β , homeostasis model assessment of beta cell function;