SUPPLEMENTAL MATERIALS

Supplementary Table 1 Different levels of log ISSI-2, log (△C-peptide0–120/△glucose0–120) × Matsuda index, log Matsuda index and log HOMA-IR among different baseline HbA_1c groups

		Log ISSI-2		Log (△C-peptide$_{0–120}$/△glucose$_{0–120}$)× Matsuda index		Log Matsuda index		LogHOMA-IR	
HbA_1c	**PIR**	**mean ± SD**	***P***	**mean ± SD**	***P***	**mean ± SD**	***P***	**mean ± SD**	***P***
≤ 9.2	≤ 0.68	4.49 ± 0.47	0.0001	2.55±0.90	< 0.0001	3.87 ± 0.57	0.165	-1.28 ± 0.69	0.054
	> 0.68	4.72 ± 0.43		3.05±0.76		3.97 ± 0.45		-1.45 ± 0.54	
> 9.2	≤ 0.68	4.34 ± 0.48	0.0023	2.02±0.94	< 0.0001	3.84 ± 0.51	0.001	-1.11 ± 0.58	< 0.0001
	> 0.68	4.55 ± 0.53		2.68±0.85		4.06 ± 0.43		-1.43 ± 0.50	

Continuous variables were presented as mean and standard deviation (SD) and the difference between two groups was compared by *t*-test. HbA_1c: glycated hemoglobin; HOMA-IR: HOMA of insulin resistance; ISSI-2: insulin secretion-sensitivity index-2; PIR: point in range.

Supplementary Table 2 Univariate Linear Regression Models for logISSI-2, log(△ C-peptide0–120/ △ glucose0–120) × Matsuda index, logMatsuda index and logHOMA-IR

Univariate Linear Regression Models	**LogISSI-2**		**Log(△C-peptide$_{0–120}$/△glucose$_{0–120}$)× Matsuda index**		**LogMatsuda index**		**LogHOMA-IR**	
Variables	**Parameter**	***P***	**Parameter**	***P***	**Parameter**	***P***	**Parameter**	***P***
PIR group	0.158	<0.001	0.405	< 0.001	0.079	< 0.001	-0.152	< 0.001
Age (years)	-0.004	0.048	-0.008	0.012	-0.001	0.866	-0.001	0.677
Male(%)	-0.042	0.354	-0.087	0.327	-0.082	0.074	0.031	0.572
Diabetes duration(years)	-0.120	<0.001	-0.243	< 0.001	-0.034	0.214	0.053	0.010
BMI(kg/m^2)	0.015	0.016	0.028	0.021	-0.037	< 0.001	0.038	< 0.001
SBP(mmHg)	0.002	0.192	0.001	0.560	-0.003	0.008	0.003	0.071
DBP(mmHg)	0.003	0.152	0.008	0.029	-0.004	0.037	0.004	0.061
HbA_1c(%)	-0.069	< 0.001	-0.187	< 0.001	-0.004	0.741	0.052	< 0.001
eGFR (mL/min)	0.001	0.066	0.003	0.016	-0.001	0.289	0.001	0.117
TG (mmol/L)	0.002	0.821	-0.006	0.739	-0.043	< 0.001	0.049	< 0.001
TC (mmol/L)	-0.053	0.003	-0.104	0.003	-0.062	0.001	0.083	< 0.001
HDL-C(mmol/L)	-0.040	0.623	-0.101	0.524	0.327	< 0.001	-0.411	< 0.001
LDL-C(mmol/L)	-0.079	< 0.001	-0.116	0.011	-0.035	0.145	0.059	0.039

P-values are from the inference using the generalized estimating equation–based sandwich SE estimates. BMI: body mass index; DBP: diastolic blood pressure; eGFR: estimated glomerular filtration rate; HbA_1c, glycated hemoglobin; HDL-C: high-density lipoprotein cholesterol; HOMA-IR: HOMA of insulin resistance; ISSI-2: insulin secretion-sensitivity index-2; LDL-C: low-density lipoprotein cholesterol; PIR: point in range; SBP: systolic blood pressure; TC: total cholesterol; TG: triglyceride.

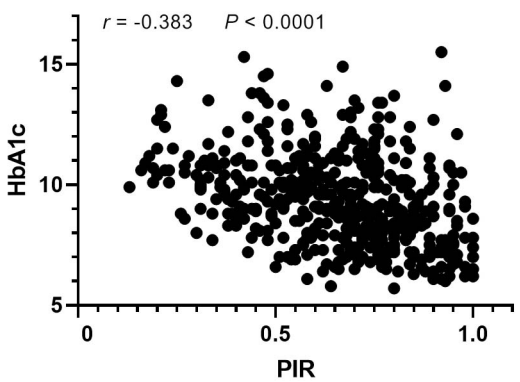

Fig. S1 The relationship of PIR and HbA_1c in the participants. Spearman's correlation test was used to determine the relationship. PIR: point in range; HbA_1c: glycated hemoglobin.