

ESM Table 1. Baseline characteristics of participants by genotype

	RR (n=23)	RW (n=25)	WW (n=7)	P value
Age, yr	52 (10)	52 (10)	53 (10)	0.99
Female, n (%)	15 (65)	11 (44)	5 (71)	0.28
BMI, kg/m ²	29.8 (25.9, 33.2)	25.9 (24.2, 29.1)	28.8 (23.3, 36.7)	0.05
Fasting glucose, mmol/l	5.51 (0.47)	5.31 (5.08, 102.18)	5.37 (4.89, 5.90)	0.59
Fasting insulin, pmol/l	96.54 (61.81, 120.84)	62.51 (39.68, 91.17)	79.25 (63.93, 124.20)	0.11
Ln HOMA-IR	1.13 (0.78, 1.47)	0.78 (0.35, 1.23)	1.00 (0.71, 1.46)	0.16
Fasting proinsulin, pmol/l	9.7 (6.9, 13.2)	8.2 (5.7, 13.0)	14.0 (9.2, 17.8)	0.26
Fasting C-peptide, nmol/l	0.46 (0.37, 0.60)	0.45 (0.23, 0.64)	0.68 (0.40, 1.03)	0.20
Fasting proinsulin:insulin	0.79 (0.59, 1.01)	1.04 (0.78, 1.34)	1.00 (0.66, 1.27)	0.20
Fasting C-peptide:insulin, nmol/pmol	0.11 (0.08, 0.13)	0.14 (0.10, 0.18)	0.15 (0.13, 0.18)	0.058
Insulin AUC _{5min} , pmol min l ⁻¹	1583.46 (1150.79, 1934.88)	837.57 (598.27, 1062.02)	1382.06 (948.11, 3338.67)	0.0014
Insulin AUC _{10min} , pmol min l ⁻¹	3816.97 (2639.79, 4359.38)	2132.12 (1661.21, 2574.50)	3362.07 (2484.54, 7311.70)	0.001
Proinsulin:insulin _{5min}	0.22 (0.18 to 0.29)	0.31 (0.24, 0.46)	0.26 (0.16, 0.31)	0.01
Proinsulin:insulin _{10min}	0.40 (0.30 to 0.48)	0.52 (0.42, 0.70)	0.41 (0.29, 0.48)	0.004
C-peptide _{5min} , nmol/l	1.43 (0.93, 1.64)	1.12 (0.80, 1.52)	1.47 (1.28, 2.44)	0.12
C-peptide _{10min} , nmol/l	1.24 (0.81, 1.45)	1.05 (0.67, 1.53)	1.52 (1.18, 2.18)	0.09
C-peptide:insulin _{5min} , nmol/pmol	0.054 (0.045, 0.067)	.066 (0.059, 0.095)	0.057 (0.047, 0.081)	0.015
C-peptide:insulin _{10min} , nmol/pmol	0.079 (0.062, 0.10)	.099 (0.088, 0.14)	0.090 (0.072, 0.098)	0.003
Serum zinc, μmol/l	10.6 (9.6, 12.1)	10.7 (9.95, 11.63)	9.5 (8.72, 11.17)	0.23

BMI, body mass index; HOMA-IR, Homeostasis Model of Assessment – Insulin Resistance

Median (p25, p75) BMI, insulin, ln HOMA-IR, proinsulin, C-peptide, proinsulin:insulin, C-peptide:insulin and zinc shown; mean (SD) glucose shown.

Medians compared using Kruskal-Wallis tests, means compared using analysis of variance, and proportions compared using Fisher's exact test.