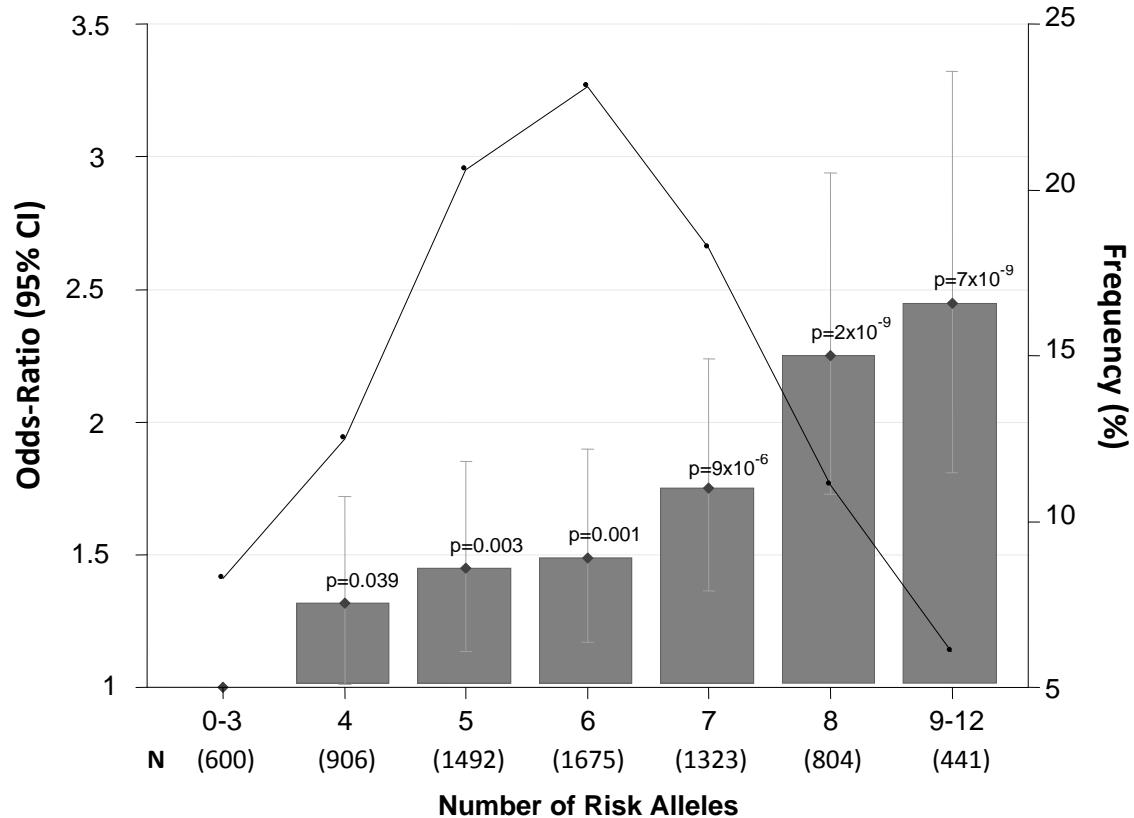


Supplemental Figure 1.

Risk of type 2 diabetes with increasing number of risk alleles at six susceptibility loci in the combined Chinese, Malay and Asian-Indian samples.



Column bars depict Odds-ratio and 95% CI for type 2 diabetes. Solid line shows the percentage of subjects in each category. Analysis comprised SNPs from *CDKAL1*(rs7756992), *CDKN2A/B*(rs10811661), *HHEX*(rs1111875), *IGF2BP2*(rs4402960), *SLC30A8*(rs13266634) and *KCNQ1*(rs2237897). Adjusted for ethnicity, BMI and gender.

Supplemental Table 1.

Allele frequency and Hardy-Weinberg test for the 8 SNPs genotyped in Non-diabetic subjects from NHS98 and SiMES

Gene (SNP)	Alleles	Genotyping success rate	NHS98 Chinese		NHS98 Malay		SiMES Malay		NHS98 Asian-Indian	
			MAF	HWE p-value	MAF	HWE p-value	MAF	HWE p-value	MAF	HWE p-value
CDKAL1 (rs7756992)	A>G	0.99	0.45	0.81	0.43	0.84	0.45	0.17	0.21	1
CDKN2A/B (rs10811661)	T>C	0.91	0.42	0.03	0.40	0.52	0.4	0.63	0.2	0.13
HHEX (rs1111875)	T>C	0.92	0.29	0.82	0.30	0.15	0.31	0.2	0.33	0.52
IGF2BP2 (rs4402960)	G>T	0.91	0.23	0.89	0.29	0.39	0.31	0.3	0.45	0.1
SLC30A8 (rs13266634)	C>T	0.91	0.46	0.56	0.43	0.08	0.43	0.04	0.25	0.44
KCNQ1 (rs2237892)	C>T	0.98	0.33	0.25	0.31	0.07	0.32	0.37	0.06	0.002*
KCNQ1 (rs2237897)	C>T	0.90	0.35	0.06	0.32	0.06	0.32	0.81	0.06	0.001*
PKN2 (rs6698181)	C>T	0.99	0.33	0.31	0.20	1.00	0.22	0.85	0.18	0.56
LOC387761 (rs7480010)	A>G	0.98	0.22	0.72	0.25	0.34	0.29	0.001*	0.44	0.2

*HWE p<0.01, these SNPs were excluded from subsequently analysis

Supplemental Table 2.

Comparison of estimates using random effects and fixed effects model for meta-analysis.

SNP	I^2	Q-test p-value	Random effects model	Fixed effects model
<i>CDKAL1</i> (rs7756992)	48.9%	0.048	1.2 (1.13 - 1.27)	1.19 (1.14 - 1.23)
<i>CDKN2A/B</i> (rs10811661)	49.6%	0.044	1.26 (1.18 - 1.34)	1.24 (1.18 - 1.29)
<i>HHEX</i> (rs1111875)	31.3%	0.158	1.18 (1.11 - 1.25)	1.17 (1.12 - 1.23)
<i>IGF2BP2</i> (rs4402960)	35.1%	0.127	1.11 (1.05 - 1.17)	1.1 (1.05 - 1.15)
<i>SLC30A8</i> (rs13266634)	39.0%	0.108	1.12 (1.06 - 1.18)	1.11 (1.06 - 1.16)
<i>KCNQ1</i> (rs2237897)	43.4%	0.116	1.3 (1.22 - 1.38)	1.29 (1.23 - 1.35)
<i>KCNQ1</i> (rs2237892)	73.1%	>0.001	1.33 (1.23 - 1.42)	1.33 (1.28 - 1.38)