

Supplementary table 1. Association of 2h-post load glucose and HbA1c with HBsAg seropositivity and HBsAb seropositivity in Guangzhou Biobank Cohort Study

	2h-post load glucose		HbA1c	
	β (95% confidence interval)	P-value	β (95% confidence interval)	P-value
HBsAg seropositivity				
Crude model	-0.04 (-0.29, 0.21)	0.76	-0.01 (-0.07, 0.06)	0.83
Model	-0.04 (-0.29, 0.21)	0.74	0.00 (-0.07, 0.06)	0.88
Model 2	0.00 (-0.24, 0.25)	0.98	-0.02 (-0.08, 0.05)	0.64
HBsAb seropositivity				
Crude model	-0.12 (-0.29, 0.05)	0.15	-0.02 (-0.06, 0.03)	0.49
Model 1	-0.12 (-0.28, 0.05)	0.17	-0.02 (-0.06, 0.03)	0.44
Model 2	-0.13 (-0.30, 0.03)	0.11	-0.02 (-0.06, 0.03)	0.48

Model 1: adjusting for age and sex

Model 2: additionally adjusting for education, occupation, smoking status, alcohol use, physical activity, BMI and study sample source, as appropriate

Supplementary table 2. Fasting glucose and diabetes status by HBsAg serological status (HBsAg positive *versus* negative) using different diabetes diagnostic criteria in Guangzhou Biobank Cohort Study

	Criteria 1		Criteria 2		Criteria 3	
Fasting glucose, mmol/l	β (95% CI)	P-value	β (95% CI)	P-value	β (95% CI)	P-value
Crude model	-0.02 (-0.10, 0.06)	0.68	-0.02 (-0.10, 0.07)	0.68	-0.03 (-0.13, 0.07)	0.54
Model 1	-0.02 (-0.10, 0.06)	0.65	-0.02 (-0.10, 0.06)	0.66	-0.04 (-0.13, 0.06)	0.48
Model 2	-0.01 (-0.09, 0.07)	0.86	-0.01 (-0.09, 0.08)	0.88	-0.03 (-0.13, 0.07)	0.56
Diabetes, yes <i>versus</i> no	OR (95%CI)		OR (95%CI)		OR (95%CI)	
Crude model	0.92 (0.44, 1.90)	0.82	1.05 (0.70, 1.57)	0.83	0.90 (0.43, 1.89)	0.79
Model 1	0.91 (0.44, 1.89)	0.81	1.05 (0.70, 1.58)	0.82	0.90 (0.43, 1.88)	0.77
Model 2	0.97 (0.47, 2.03)	0.94	1.12 (0.74, 1.69)	0.60	0.94 (0.44, 1.99)	0.87

Criteria 1: Fasting glucose ≥ 7.0 mmol/l or self-reported diabetes

Criteria 2: Fasting glucose ≥ 7.0 mmol/l, 2h-post load glucose ≥ 11.1 mmol/l, or self-reported diabetes

Criteria 3: Fasting glucose ≥ 7.0 mmol/l, 2h-post load glucose ≥ 11.1 mmol/l, HbA1c $\geq 6.5\%$, or self-reported diabetes

Model 1: adjusting for age and sex

Model 2: additionally adjusting for education, occupation, smoking status, alcohol use, physical activity, BMI, and study sample source, as appropriate

Supplementary table 3. Fasting glucose and diabetes status by HBsAb serological status (HBsAb positive *versus* negative) using different diabetes diagnostic criteria in Guangzhou Biobank Cohort Study

	Criteria 1		Criteria 2		Criteria 3	
Fasting glucose, mmol/l	β (95% CI)	P-value	β (95% CI)	P-value	β (95% CI)	P-value
Crude model	-0.01 (-0.06, 0.05)	0.83	-0.01 (-0.06, 0.05)	0.83	-0.00 (-0.07, 0.07)	0.92
Model 1	-0.01 (-0.06, 0.05)	0.84	-0.01 (-0.06, 0.05)	0.83	-0.00 (-0.07, 0.07)	0.99
Model 2	-0.01 (-0.06, 0.05)	0.84	-0.01 (-0.06, 0.05)	0.84	-0.01 (-0.08, 0.06)	0.86
Diabetes, yes <i>versus</i> no	OR (95%CI)		OR (95%CI)		OR (95%CI)	
Crude model	0.87 (0.55, 1.36)	0.53	0.88 (0.67, 1.15)	0.34	0.78 (0.49, 1.25)	0.31
Model 1	0.87 (0.56, 1.36)	0.55	0.88 (0.68, 1.15)	0.35	0.79 (0.49, 1.26)	0.32
Model 2	0.85 (0.54, 1.35)	0.49	0.85 (0.65, 1.12)	0.24	0.76 (0.47, 1.22)	0.25

Criteria 1: Fasting glucose ≥ 7.0 mmol/l or self-reported diabetes

Criteria 2: Fasting glucose ≥ 7.0 mmol/l, 2h-post load glucose ≥ 11.1 mmol/l, or self-reported diabetes

Criteria 3: Fasting glucose ≥ 7.0 mmol/l, 2h-post load glucose ≥ 11.1 mmol/l, HbA1c $\geq 6.5\%$, or self-reported diabetes

Model 1: adjusting for age and sex

Model 2: additionally adjusting for education, occupation, smoking status, alcohol use, physical activity, BMI and study sample source, as appropriate

Supplementary table 4. Fasting glucose and diabetes status by HBsAg and HBsAb serological status in GBCS and MIDPC

	GBCS				MIDPC				
	HBsAg(-) HBsAb(-)	HBsAg(+) HBsAb(-)	P-value	HBsAg(-) HBsAb(+)	P-value	HBsAg(+) HBsAb(-)	P-value	HBsAg(-) HBsAb(+)	P-value
Fasting glucose, mmol/l	Reference	β (95% CI)		β (95% CI)		β (95% CI)		β (95% CI)	
Crude model	0.00	-0.04 (-0.15, 0.07)	0.49	-0.02 (-0.08, 0.05)	0.60	0.02 (-0.24, 0.29)	0.86	0.04 (-0.08, 0.17)	0.52
Model 1	0.00	-0.04 (-0.15, 0.07)	0.47	-0.02 (-0.08, 0.05)	0.59	0.04 (-0.23, 0.31)	0.77	0.04 (-0.09, 0.17)	0.54
Model 2	0.00	-0.01 (-0.12, 0.09)	0.81	-0.01 (-0.07, 0.05)	0.77	-0.04 (-0.36, 0.27)	0.78	0.07 (-0.07, 0.21)	0.32
Diabetes, yes versus no	Reference	OR (95%CI)		OR (95%CI)		OR (95%CI)		OR (95%CI)	
Crude model	1.00	0.89 (0.52, 1.52)	0.68	0.85 (0.63, 1.14)	0.28	0.91 (0.67, 1.23)	0.54	0.95 (0.83, 1.10)	0.28
Model 1	1.00	0.88 (0.52, 1.52)	0.66	0.85 (0.63, 1.15)	0.29	0.91 (0.67, 1.23)	0.52	0.95 (0.82, 1.09)	0.45
Model 2	1.00	0.95 (0.55, 1.64)	0.85	0.84 (0.61, 1.13)	0.24	0.82 (0.57, 1.18)	0.29	0.97 (0.83, 1.14)	0.72

Model 1: adjusting for age and sex

Model 2: additionally adjusting for education, occupation, smoking status, alcohol use, physical activity, BMI and study sample source, as appropriate

Supplementary table 5. Fasting glucose and diabetes status by HBsAg and HBsAb serological status in data with GBCS and MIDPC pooling together

	GBCS+MIDPC					
	HBsAg(-) HBsAb(-)	HBsAg(+)	HBsAb(-)		HBsAg(-)	HBsAb(+)
Fasting glucose, mmol/l	Reference	β (95% CI)		P-value	β (95% CI)	
Crude model	0.00	-0.00 (-0.14, 0.14)		0.98	0.02 (-0.06, 0.09)	
Model 1	0.00	0.01 (-0.13, 0.15)		0.93	0.02 (-0.05, 0.09)	
Model 2	0.00	-0.01 (-0.15, 0.14)		0.92	0.04 (-0.04, 0.11)	
Diabetes, yes versus no	Reference	OR (95%CI)			OR (95%CI)	
Crude model	1.00	0.91 (0.70, 1.19)		0.49	0.93 (0.82, 1.06)	
Model 1	1.00	0.92 (0.70, 1.19)		0.52	0.93 (0.82, 1.06)	
Model 2	1.00	0.87 (0.65, 1.18)		0.39	0.96 (0.83, 1.11)	

Model 1: adjusting for age and sex

Model 2: additionally adjusting for education, occupation, smoking status, alcohol use, physical activity, BMI and study sample source, as appropriate