S11 Table. Association of GC with alcohol consumption, PRSs and their interaction terms in the test set (sex stratified)

Variables	Male		Female	
	Beta (95% CI)	p	Beta (95% CI)	p
Alcohol consumption (per 20 g/day)	0.017 (–0.09 to 0.076)	0.688	0.196 (–0.334 to 0.396)	0.187
PRS				
PRS-GC	0.264 (0.111 to 0.417)	0.001	0.148 (–0.048 to 0.344)	0.139
PRS-Alcohol	–0.043 (–0.197 to 0.115)	0.590	-0.050 (–0.242 to 0.146)	0.611
Interaction				
Alcohol consumption×PRS-GC	0.084 (0.014 to 0.162)	0.018	0.189 (–0.239 to 0.623)	0.367
Alcohol consumption×PRS-Alcohol	–0.140 (–0.242 to –0.037)	0.006	-0.034 (–0.418 to 0.423)	0.857

A multiple logistic regression model including age, BMI, salted food intake, smoking status, family history of GC, alcohol consumption, PRS-GC, PRS-Alcohol, alcohol consumption × PRS-GC, and alcohol consumption × PRS-Alcohol as covariates. $p < 0.05$ indicates statistical significance. BMI, body mass index; CI, confidence interval; GC, gastric cancer; OR, odds ratio; PRS, polygenic risk score.