S15 Table. Association between GC and alcohol consumption stratified by PRS-GC and PRS-Alcohol using various cutoffs

			All			Male			Female		
PRS	Percentile cutoff	Category	HR (95% CI)	p	$p_{interaction}$	HR (95% CI)	p	$p_{interaction}$	HR (95% CI)	p	$p_{interaction}$
PRS-GC	40%	Low	0.888 (0.505-1.561)	0.680	0.135	0.843 (0.460-1.542)	0.579	0.459	0.822 (0.109-6.177)	0.849	0.359
		High	1.218 (0.866-1.712)	0.257		1.165 (0.816-1.663)	0.402		1.962 (0.763-5.046)	0.162	
	50%	Low	0.950 (0.582-1.549)	0.836	0.213	0.964 (0.580-1.602)	0.888	0.765	0.680 (0.092-5.031)	0.706	0.198
		High	1.224 (0.851-1.760)	0.276		1.140 (0.776-1.675)	0.506		2.138 (0.820-5.573)	0.120	
	60%	Low	0.778 (0.492-1.230)	0.282	0.024	0.773 (0.483-1.238)	0.284	0.085	0.530 (0.072-3.898)	0.533	0.097
		High	1.489 (1.018-2.179)	0.040		1.420 (0.944-2.135)	0.092		2.661 (1.006-7.037)	0.049	
	70%	Low	0.831 (0.550-1.255)	0.379	0.025	0.795 (0.518-1.219)	0.293	0.067	0.849 (0.203-3.551)	0.822	0.180

		High	1.554 (1.024-2.358)	0.038		1.524 (0.976-2.379)	0.064		2.791 (0.944-8.255)	0.064	
	80%	Low	0.934 (0.653-1.334)	0.706	0.161	0.891 (0.609-1.305)	0.554	0.245	1.170 (0.360-3.799)	0.794	0.332
		High	1.628 (0.980-2.707)	0.060		1.523 (0.905-2.565)	0.113		2.362 (0.668-8.356)	0.183	
PRS-Alcohol	40%	Low	1.403 (0.893-2.206)	0.142	0.248	1.322 (0.825-2.118)	0.246	0.231	2.303 (0.547-9.697)	0.256	0.690
		High	1.031 (0.702-1.513)	0.878		1.004 (0.668-1.508)	0.984		1.427 (0.494-4.123)	0.511	
	50%	Low	1.454 (0.985-2.146)	0.059	0.035	1.412 (0.939-2.124)	0.097	0.046	2.497 (0.761-8.190)	0.131	0.514
		High	0.910 (0.586-1.414)	0.676		0.865 (0.543-1.378)	0.542		1.103 (0.328-3.707)	0.874	
	60%	Low	1.384 (0.967-1.981)	0.076	0.042	1.349 (0.928-1.962)	0.117	0.040	1.841 (0.568-5.971)	0.309	0.985
		High	0.845 (0.513-1.393)	0.510		0.794 (0.465-1.355)	0.398		1.251 (0.360-4.341)	0.724	
	70%	Low	1.227 (0.876-1.717)	0.234	0.157	1.151 (0.807-1.642)	0.436	0.307	2.143 (0.767-5.986)	0.146	0.683

	High	0.927 (0.517-1.662)	0.800		0.956 (0.520-1.760)	0.886		0.889 (0.198-3.979)	0.877		
80%	Low	1.137 (0.824-1.569)	0.436	0.680	1.083 (0.772-1.520)	0.644	0.648	1.917 (0.762-4.823)	0.167	0.634	
	High	1.095 (0.551-2.174)	0.796		1.123 (0.544-2.318)	0.754		0.738 (0.088-6.163)	0.779		

BMI, body mass index; CI, confidence interval; GC, gastric cancer; HR, hazard ratio; PRS, polygenic risk score.