Supplementary Table 7. Comparing self-reported and large language model-based BFI neuroticism in predicting depression: adjusted logistic regression results

	Self-reported		Mistral		Qwen		GPT	
	OR (95% CI)	p	OR (95% CI)	p	OR (95% CI)	p	OR (95% CI)	p
Sex								
Male	1 [reference]	NA	1 [reference]	NA	1 [reference]	NA	1 [reference]	NA
Female	0.902 (0.803–1.014)	0.085	0.948 (0.848–1.061)	0.356	0.986 (0.880–1.105)	0.808	0.955 (0.853–1.068)	0.414
Education								
College	1 [reference]	NA	1 [reference]	NA	1 [reference]	NA	1 [reference]	NA
Graduate school	0.855 (0.621–1.178)	0.338	0.835 (0.598–1.166)	0.290	0.830 (0.590–1.169)	0.285	0.864 (0.619–1.205)	0.388
High school	0.883 (0.767–1.016)	0.082	0.896 (0.783–1.025)	0.108	0.872 (0.760–1.000)	0.050	0.896 (0.784–1.025)	0.110
University	0.855 (0.750–0.976)	0.020	0.893 (0.786–1.014)	0.080	0.873 (0.766–0.994)	0.040	0.891 (0.785–1.011)	0.074
Neuroticism (BFI)								
No	1 [reference]	NA	1 [reference]	NA	1 [reference]	NA	1 [reference]	NA
Yes	1.119 (1.089–1.150)	<0.001	1.191 (1.122–1.265)	<0.001	1.069 (1.032–1.108)	<0.001	1.193 (1.125–1.264)	<0.001

BFI, Big Five Inventory; OR, odds ratio; CI, confidence interval; NA, not applicable.