

Tymoszuk U, Spiro N, Perkins R, Mason-Bertrand A, Gee K, and Williamon A (2021), Arts Engagement Trends in the UK and Their Mental and Social Wellbeing Implications: HEartS Survey, *PLOS One* 16:e0246078, doi: 10.1371/journal.pone.0246078.

**S2 TABLE |** Results from logistic regression analyses examining the association between arts engagement clusters and odds of loneliness using De Jong Gierveld Loneliness Scale. All outcomes were entered and analysed in individual models, UK-wide HEartS Survey, n=5,338.

	De Jong Gierveld Loneliness Scale											
	Global loneliness				Emotional loneliness				Social loneliness			
	OR	95% CI	p	R <sup>2</sup>	OR	95% CI	p	R <sup>2</sup>	OR	95% CI	p	R <sup>2</sup>
<i>Model 1: sociodemographic variables (reference: low engagers)</i>												
Receptive consumers	0.70	0.59–0.84	<0.001	3.39%	0.68	0.58–0.81	<0.001	6.64%	0.74	0.64–0.85	<0.001	1.64%
Omnivores	0.65	0.54–0.79	<0.001		0.92	0.77–1.09	0.31		0.53	0.45–0.62	<0.001	
<i>Model 2: Model 1 + socioeconomic variables (reference: low engagers)</i>												
Receptive consumers	0.75	0.62–0.89	0.001	4.62%	0.74	0.62–0.87	<0.001	8.01%	0.75	0.65–0.87	<0.001	2.01%
Omnivores	0.72	0.60–0.88	0.001		1.02	0.86–1.21	0.84		0.54	0.46–0.64	<0.001	
<i>Model 3: Model 2 + health and fitness variables (reference: low engagers)</i>												
Receptive consumers	0.79	0.66–0.96	0.016	8.90%	0.78	0.65–0.93	0.007	12.01%	0.82	0.70–0.96	0.011	5.06%
Omnivores	0.75	0.61–0.93	0.007		1.03	0.85–1.24	0.79		0.61	0.51–0.72	<0.001	
<i>Model 4: Model 3 + social circumstances variables (reference: low engagers)</i>												
Receptive consumers	0.80	0.66–0.97	0.021	11.41%	0.79	0.66–0.95	0.011	14.86%	0.85	0.71–0.98	0.024	7.96%
Omnivores	0.76	0.61–0.94	0.010		1.04	0.86–1.26	0.68		0.61	0.51–0.73	<0.001	

*Abbreviations:* OR, odds ratio; CI, confidence interval; R<sup>2</sup>, Pseudo R-squared

*Cut points for cases:* intense global loneliness = max score of 6; intense emotional loneliness = max score of 3; intense social loneliness = max score of 3

*Model 1:* gender, age, ethnicity; *Model 2:* Model 1 + educational attainment, household income; *Model 3:* Model 2 + self-rated health, physical activity (mild, moderate, vigorous); *Model 4:* Model 3 + living status, closeness of relationship with a partner