

Appendix I

Cultural events

- A film at a cinema or other venue
- Exhibition or collection of art, photography or sculpture or a craft exhibition (not craft market)
- Event which included video or electronic art
- Event connected with books or writing
- Street arts or a public art display or installation (art in everyday surroundings, or an art work such as sculpture that is outdoors or in a public place)
- Carnival or culturally specific festival (for example, Mela, Baisakhi, Navrati, Feis)
- Circus (not animals)
- Play/drama, pantomime or a musical
- Opera/operetta
- Classical music performance
- Rock, pop or jazz performance
- Ballet
- Contemporary dance
- African people's dance or south Asian and Chinese dance

Museums/galleries and heritage sites visits

- Visit a museum or gallery
- Visit any of the following heritage sites:
 - A city or town with historic character
 - A historic building open to the public (non-religious)
 - A historic park or garden open to the public
 - A place connected with industrial history (e.g. an old factory, dockyard or mine) or historic transport system (e.g. an old ship or railway)
 - A historic place of worship attended as a visitor (not to worship)
 - A monument such as a castle, fort or ruin
 - A site of archaeological interest (e.g. Roman villa, ancient burial site)
 - A site connected with sports heritage (e.g. Wimbledon) (not visited for the purposes of watching sport)

Supplementary

Table S1: OLS regression estimating the association between community cultural engagement (CCE) at Wave 2 and life satisfaction at Wave 5 (weighted; N=14,783)

	M1: Basic model			M2: M1 + IMD & interaction terms			M3: M2 + Demographic factors			M4: M3 + Socio-economic position		
	Coef	95%CI	p-value	Coef	95%CI	p-value	Coef	95%CI	p-value	Coef	95%CI	p-value
Cultural events	0.10	0.08 - 0.12	0.000	0.10	0.07 - 0.12	0.000	0.11	0.09 - 0.14	0.000	0.08	0.06 - 0.11	0.000
20% most deprived area				-0.32	-0.45 - -0.18	0.000	-0.26	-0.40 - -0.13	0.000	-0.16	-0.29 - -0.02	0.023
20% least deprived area (ref: medium levels of deprivation)				0.24	0.10 - 0.38	0.001	0.21	0.08 - 0.35	0.002	0.15	0.01 - 0.29	0.033
Cultural events*20% most deprived area				-0.03	-0.08 - 0.03	0.353	-0.02	-0.08 - 0.03	0.443	-0.02	-0.07 - 0.04	0.485
Cultural events*20% least deprived area				-0.03	-0.08 - 0.02	0.264	-0.03	-0.08 - 0.02	0.203	-0.02	-0.07 - 0.03	0.352
Constant	4.84	4.79 - 4.89	0.000	4.88	4.82 - 4.95	0.000	4.68	4.54 - 4.82	0.000	4.28	3.90 - 4.66	0.000
R-squared	0.01			0.02			0.03			0.04		
Museums & heritage sites	0.11	0.09 - 0.13	0.000	0.09	0.07 - 0.11	0.000	0.08	0.06 - 0.11	0.000	0.06	0.03 - 0.08	0.000
20% most deprived area				-0.34	-0.46 - -0.22	0.000	-0.30	-0.43 - -0.18	0.000	-0.19	-0.31 - -0.06	0.003
20% least deprived area (ref: medium levels of deprivation)				0.20	0.07 - 0.33	0.002	0.18	0.05 - 0.31	0.005	0.11	-0.01 - 0.24	0.081
Museums & heritage sites*20% most deprived area				-0.01	-0.06 - 0.05	0.782	-0.01	-0.06 - 0.05	0.843	-0.00	-0.06 - 0.05	0.862
Museums & heritage sites*20% least deprived area				-0.02	-0.06 - 0.03	0.518	-0.02	-0.06 - 0.03	0.517	-0.01	-0.05 - 0.04	0.799
Constant	4.85	4.80 - 4.90	0.000	4.91	4.85 - 4.97	0.000	4.85	4.72 - 4.98	0.000	4.36	3.98 - 4.74	0.000
R-squared	0.01			0.02			0.03			0.04		

Note: M1 (basic model) included CCE. M2 additionally controlled for Index of Multiple Deprivation (IMD) and interaction terms (CCE*IMD). M3 additionally adjusted for demographic factors (age, gender, ethnicity, partnership status, presence of children under age 16, whether or not living alone, regional locations). M4 additionally adjusted for socio-economic position (educational levels, occupational socio-economic status, household monthly gross income, and housing tenure). Bold values denote statistical significance at the p < 0.05 level.

Table S2: OLS regression estimating the association between community cultural engagement (CCE) at Wave 2 and life satisfaction at Wave 5 (weighted; N=14,783)

	M1: Basic model			M2: M1 + IMD & interaction terms			M3: M2 + Demographic factors			M4: M3 + Socio-economic position		
	Coef	95%CI	p-value	Coef	95%CI	p-value	Coef	95%CI	p-value	Coef	95%CI	p-value
Cultural events	0.10	0.08 - 0.12	0.000	0.10	0.08 - 0.12	0.000	0.11	0.09 - 0.13	0.000	0.08	0.06 - 0.10	0.000
10% most deprived area				-0.35	-0.53 - -0.17	0.000	-0.28	-0.46 - -0.10	0.002	-0.16	-0.34 - 0.02	0.076
10% least deprived area				0.28	0.09 - 0.47	0.004	0.26	0.07 - 0.45	0.008	0.17	-0.02 - 0.37	0.074
(ref: medium levels of deprivation)												
Cultural events*10% most deprived area				-0.05	-0.14 - 0.03	0.217	-0.05	-0.13 - 0.03	0.251	-0.04	-0.12 - 0.04	0.348
Cultural events*10% least deprived area				-0.03	-0.09 - 0.04	0.418	-0.03	-0.10 - 0.03	0.281	-0.02	-0.09 - 0.04	0.471
Constant	4.84	4.79 - 4.89	0.000	4.86	4.81 - 4.92	0.000	4.66	4.52 - 4.79	0.000	4.25	3.87 - 4.63	0.000
R-squared	0.01			0.02			0.03			0.04		
Museums & heritage sites	0.11	0.09 - 0.13	0.000	0.09	0.07 - 0.11	0.000	0.08	0.06 - 0.10	0.000	0.05	0.03 - 0.07	0.000
10% most deprived area				-0.41	-0.57 - -0.25	0.000	-0.38	-0.54 - -0.21	0.000	-0.24	-0.40 - -0.07	0.004
10% least deprived area				0.18	0.00 - 0.37	0.048	0.16	-0.02 - 0.34	0.081	0.07	-0.11 - 0.25	0.462
(ref: medium levels of deprivation)												
Museums & heritage sites*10% most deprived area				-0.00	-0.08 - 0.07	0.921	-0.00	-0.08 - 0.08	0.981	0.00	-0.07 - 0.08	0.902
Museums & heritage sites*10% least deprived area				0.01	-0.05 - 0.07	0.789	0.01	-0.05 - 0.07	0.807	0.02	-0.04 - 0.08	0.505
Constant	4.85	4.80 - 4.90	0.000	4.90	4.84 - 4.95	0.000	4.83	4.71 - 4.96	0.000	4.34	3.96 - 4.72	0.000
R-squared	0.01			0.02			0.03			0.04		

Note: M1 (basic model) included CCE. M2 additionally controlled for Index of Multiple Deprivation (IMD) and interaction terms (CCE*IMD). M3 additionally adjusted for demographic factors (age, gender, ethnicity, partnership status, presence of children under age 16, whether or not living alone, regional locations). M4 additionally adjusted for socio-economic position (educational levels, occupational socio-economic status, household monthly gross income, and housing tenure). Bold values denote statistical significance at the $p < 0.05$ level.

Table S3: OLS regression estimating the association between community cultural engagement (CCE) at Wave 2 and mental distress (GHQ-12) at Wave 5 (weighted; N=14,783)

	M1: Basic model			M2: M1 + IMD & interaction terms			M3: M2 + Demographic factors			M4: M3 + Socio-economic position		
	Coef	95%CI	p-value	Coef	95%CI	p-value	Coef	95%CI	p-value	Coef	95%CI	p-value
Cultural events	-0.02	-0.03 - -0.02	0.000	-0.02	-0.02 - -0.01	0.000	-0.02	-0.03 - -0.02	0.000	-0.02	-0.02 - -0.01	0.000
20% most deprived area				0.09	0.05 - 0.13	0.000	0.08	0.04 - 0.12	0.000	0.05	0.01 - 0.09	0.012
20% least deprived area				-0.07	-0.11 - -0.03	0.000	-0.07	-0.11 - -0.03	0.001	-0.05	-0.09 - -0.01	0.007
(ref: medium levels of deprivation)												
Cultural events*20% most deprived area				-0.01	-0.03 - 0.00	0.070	-0.01	-0.03 - 0.00	0.105	-0.01	-0.03 - 0.00	0.118
Cultural events*20% least deprived area				0.01	-0.01 - 0.02	0.383	0.01	-0.01 - 0.02	0.376	0.00	-0.01 - 0.02	0.613
Constant	1.97	1.96 - 1.99	0.000	1.96	1.94 - 1.98	0.000	2.01	1.96 - 2.05	0.000	2.14	2.03 - 2.25	0.000
R-squared	0.01			0.01			0.03			0.04		
Museums & heritage sites	-0.02	-0.03 - -0.02	0.000	-0.02	-0.02 - -0.01	0.000	-0.01	-0.02 - -0.01	0.000	-0.01	-0.02 - -0.00	0.013
20% most deprived area				0.08	0.04 - 0.12	0.000	0.08	0.04 - 0.12	0.000	0.05	0.01 - 0.08	0.014
20% least deprived area				-0.06	-0.10 - -0.02	0.002	-0.06	-0.10 - -0.02	0.002	-0.04	-0.08 - -0.01	0.025
(ref: medium levels of deprivation)												
Museums & heritage sites*20% most deprived area				-0.01	-0.03 - 0.00	0.108	-0.01	-0.03 - 0.00	0.096	-0.01	-0.03 - 0.00	0.151
Museums & heritage sites*20% least deprived area				0.00	-0.01 - 0.01	0.924	0.00	-0.01 - 0.01	0.862	-0.00	-0.02 - 0.01	0.758
Constant	1.97	1.95 - 1.98	0.000	1.95	1.93 - 1.97	0.000	1.97	1.93 - 2.00	0.000	2.12	2.01 - 2.23	0.000
R-squared	0.01			0.01			0.03			0.04		

Note: M1 (basic model) included CCE. M2 additionally controlled for Index of Multiple Deprivation (IMD) and interaction terms (CCE*IMD). M3 additionally adjusted for demographic factors (age, gender, ethnicity, partnership status, presence of children under age 16, whether or not living alone, regional locations). M4 additionally adjusted for socio-economic position (educational levels, occupational socio-economic status, household monthly gross income, and housing tenure). Bold values denote statistical significance at the $p < 0.05$ level.

Table S4: OLS regression estimating the association between community cultural engagement (CCE) at Wave 2 and mental distress (GHQ-12) at Wave 5 (weighted; N=14,783)

	M1: Basic model			M2: M1 + IMD & interaction terms			M3: M2 + Demographic factors			M4: M3 + Socio-economic position		
	Coef	95%CI	p-value	Coef	95%CI	p-value	Coef	95%CI	p-value	Coef	95%CI	p-value
Cultural events	-0.02	-0.03 - -0.02	0.000	-0.02	-0.03 - -0.01	0.000	-0.03	-0.03 - -0.02	0.000	-0.02	-0.03 - -0.01	0.000
10% most deprived area				0.09	0.04 - 0.15	0.001	0.08	0.02 - 0.13	0.005	0.04	-0.01 - 0.10	0.118
10% least deprived area				-0.10	-0.15 - -0.04	0.001	-0.09	-0.15 - -0.04	0.001	-0.07	-0.12 - -0.01	0.013
(ref: medium levels of deprivation)												
Cultural events*10% most deprived area				0.00	-0.02 - 0.02	0.883	0.00	-0.02 - 0.03	0.702	0.00	-0.02 - 0.03	0.714
Cultural events*10% least deprived area				0.01	-0.01 - 0.03	0.155	0.01	-0.00 - 0.03	0.150	0.01	-0.01 - 0.03	0.326
Constant	1.97	1.96 - 1.99	0.000	1.97	1.95 - 1.98	0.000	2.02	1.98 - 2.06	0.000	2.15	2.04 - 2.26	0.000
R-squared	0.01			0.01			0.03			0.04		
Museums & heritage sites	-0.02	-0.03 - -0.02	0.000	-0.02	-0.02 - -0.01	0.000	-0.02	-0.02 - -0.01	0.000	-0.01	-0.02 - -0.00	0.001
10% most deprived area				0.12	0.07 - 0.17	0.000	0.11	0.06 - 0.16	0.000	0.07	0.02 - 0.12	0.004
10% least deprived area				-0.08	-0.13 - -0.02	0.006	-0.08	-0.13 - -0.02	0.004	-0.05	-0.11 - -0.00	0.044
(ref: medium levels of deprivation)												
Museums & heritage sites*10% most deprived area				-0.02	-0.04 - 0.01	0.137	-0.02	-0.04 - 0.00	0.113	-0.02	-0.04 - 0.01	0.140
Museums & heritage sites*10% least deprived area				0.01	-0.01 - 0.02	0.521	0.01	-0.01 - 0.03	0.430	0.00	-0.01 - 0.02	0.734
Constant	1.97	1.95 - 1.98	0.000	1.95	1.94 - 1.97	0.000	1.97	1.93 - 2.01	0.000	2.12	2.01 - 2.23	0.000
R-squared	0.01			0.01			0.02			0.04		

Note: M1 (basic model) included CCE. M2 additionally controlled for Index of Multiple Deprivation (IMD) and interaction terms (CCE*IMD). M3 additionally adjusted for demographic factors (age, gender, ethnicity, partnership status, presence of children under age 16, whether or not living alone, regional locations). M4 additionally adjusted for socio-economic position (educational levels, occupational socio-economic status, household monthly gross income, and housing tenure). Bold values denote statistical significance at the p < 0.05 level.

Table S5: OLS regression estimating the association between community cultural engagement (CCE) at Wave 2 and mental health functioning (SF-12) at Wave 5 (weighted; N=14,783)

	M1: Basic model			M2: M1 + IMD & interaction terms			M3: M2 + Demographic factors			M4: M3 + Socio-economic position		
	Coef	95%CI	p-value	Coef	95%CI	p-value	Coef	95%CI	p-value	Coef	95%CI	p-value
Cultural events	0.10	0.10 - 0.11	0.000	0.10	0.09 - 0.11	0.000	0.08	0.07 - 0.09	0.000	0.05	0.04 - 0.06	0.000
20% most deprived area				-0.18	-0.24 - -0.12	0.000	-0.19	-0.25 - -0.13	0.000	-0.10	-0.16 - -0.04	0.001
20% least deprived area (ref: medium levels of deprivation)				0.17	0.11 - 0.24	0.000	0.16	0.10 - 0.22	0.000	0.10	0.04 - 0.16	0.001
Cultural events*20% most deprived area				0.01	-0.01 - 0.03	0.380	0.01	-0.01 - 0.03	0.463	0.01	-0.01 - 0.03	0.505
Cultural events*20% least deprived area				-0.02	-0.04 - -0.00	0.033	-0.01	-0.03 - 0.01	0.217	-0.00	-0.02 - 0.02	0.890
Constant	3.53	3.50 - 3.55	0.000	3.55	3.51 - 3.58	0.000	4.01	3.95 - 4.06	0.000	3.81	3.66 - 3.97	0.000
R-squared	0.05			0.07			0.12			0.16		
Museums & heritage sites	0.08	0.07 - 0.09	0.000	0.07	0.06 - 0.09	0.000	0.07	0.06 - 0.08	0.000	0.05	0.04 - 0.06	0.000
20% most deprived area				-0.16	-0.21 - -0.10	0.000	-0.17	-0.22 - -0.11	0.000	-0.07	-0.13 - -0.02	0.008
20% least deprived area (ref: medium levels of deprivation)				0.16	0.10 - 0.22	0.000	0.16	0.10 - 0.21	0.000	0.10	0.05 - 0.16	0.000
Museums & heritage sites*20% most deprived area				-0.00	-0.02 - 0.02	0.989	-0.00	-0.03 - 0.02	0.760	-0.01	-0.03 - 0.01	0.419
Museums & heritage sites*20% least deprived area				-0.02	-0.04 - 0.00	0.072	-0.01	-0.03 - 0.01	0.190	-0.00	-0.02 - 0.02	0.805
Constant	3.60	3.57 - 3.62	0.000	3.62	3.59 - 3.64	0.000	4.10	4.04 - 4.15	0.000	3.84	3.68 - 4.00	0.000
R-squared	0.03			0.05			0.11			0.16		

Note: M1 (basic model) included CCE. M2 additionally controlled for Index of Multiple Deprivation (IMD) and interaction terms (CCE*IMD). M3 additionally adjusted for demographic factors (age, gender, ethnicity, partnership status, presence of children under age 16, whether or not living alone, regional locations). M4 additionally adjusted for socio-economic position (educational levels, occupational socio-economic status, household monthly gross income, and housing tenure). Bold values denote statistical significance at the $p < 0.05$ level.

Table S6: OLS regression estimating the association between community cultural engagement (CCE) at Wave 2 and mental health functioning (SF-12) at Wave 5 (weighted; N=14,783)

	M1: Basic model			M2: M1 + IMD & interaction terms			M3: M2 + Demographic factors			M4: M3 + Socio-economic position		
	Coef	95%CI	p-value	Coef	95%CI	p-value	Coef	95%CI	p-value	Coef	95%CI	p-value
Cultural events	0.10	0.10 - 0.11	0.000	0.10	0.09 - 0.11	0.000	0.08	0.07 - 0.09	0.000	0.05	0.04 - 0.06	0.000
10% most deprived area				-0.21	-0.29 - -0.13	0.000	-0.21	-0.29 - -0.13	0.000	-0.11	-0.19 - -0.03	0.006
10% least deprived area				0.24	0.16 - 0.32	0.000	0.22	0.14 - 0.29	0.000	0.14	0.06 - 0.21	0.000
(ref: medium levels of deprivation)												
Cultural events*10% most deprived area				-0.01	-0.04 - 0.03	0.693	-0.01	-0.04 - 0.02	0.500	-0.01	-0.04 - 0.02	0.597
Cultural events*10% least deprived area				-0.04	-0.06 - -0.01	0.004	-0.03	-0.05 - -0.00	0.043	-0.01	-0.03 - 0.02	0.484
Constant	3.53	3.50 - 3.55	0.000	3.54	3.51 - 3.57	0.000	3.99	3.93 - 4.04	0.000	3.80	3.64 - 3.96	0.000
R-squared	0.05			0.07			0.11			0.16		
Museums & heritage sites	0.08	0.07 - 0.09	0.000	0.07	0.07 - 0.08	0.000	0.07	0.06 - 0.08	0.000	0.05	0.04 - 0.06	0.000
10% most deprived area				-0.23	-0.30 - -0.16	0.000	-0.24	-0.31 - -0.17	0.000	-0.12	-0.19 - -0.05	0.001
10% least deprived area				0.21	0.13 - 0.28	0.000	0.20	0.13 - 0.27	0.000	0.12	0.06 - 0.18	0.000
(ref: medium levels of deprivation)												
Museums & heritage sites*10% most deprived area				0.00	-0.03 - 0.04	0.899	0.00	-0.03 - 0.04	0.818	0.00	-0.03 - 0.03	0.958
Museums & heritage sites*10% least deprived area				-0.03	-0.05 - -0.00	0.034	-0.02	-0.04 - 0.00	0.111	-0.00	-0.03 - 0.02	0.769
Constant	3.60	3.57 - 3.62	0.000	3.61	3.59 - 3.64	0.000	4.09	4.04 - 4.14	0.000	3.83	3.68 - 3.99	0.000
R-squared	0.03			0.05			0.11			0.16		

Note: M1 (basic model) included CCE. M2 additionally controlled for Index of Multiple Deprivation (IMD) and interaction terms (CCE*IMD). M3 additionally adjusted for demographic factors (age, gender, ethnicity, partnership status, presence of children under age 16, whether or not living alone, regional locations). M4 additionally adjusted for socio-economic position (educational levels, occupational socio-economic status, household monthly gross income, and housing tenure). Bold values denote statistical significance at the $p < 0.05$ level.