

Appendix table 1

Sensitivity analysis

Ethnic group	Male		Female	
	OR (95%CI)	p-value	OR (95%CI)	p-value
Multi-level logistic regression of adjusted* odds ratio of 10% increase in area own-ethnic density and obesity or overweight prevalence by ethnic group				
Bangladeshi	0.99 (0.95-1.02)	0.43	0.99 (0.95-1.04)	0.74
Black African	1.21 (1.12-1.32)	<0.001	1.15 (1.06-1.26)	0.001
Indian	1.05 (0.98-1.12)	0.17	0.95 (0.91-0.99)	0.05
Pakistani	1.16 (1.05-1.27)	0.003	1.11 (1.00-1.22)	0.06
White British	1.02 (0.96-1.07)	0.56	1.04 (0.99-1.09)	0.13
Multi-level logistic regression of adjusted* odds ratio of 10% increase in area own-ethnic density and obesity or overweight prevalence by ethnic group, using primary care data for ethnic density				
Bangladeshi	1.01 (0.97-1.04)	0.68	1.00 (0.95-1.06)	0.89
Black African	1.14 (1.05-1.23)	<0.001	1.18 (1.08-1.30)	<0.001
Indian	1.02 (0.97-1.09)	0.40	0.95 (0.90-0.99)	0.04
Pakistani	1.08 (0.98-1.19)	0.13	1.06 (0.96-1.16)	0.24
White British	0.98 (0.92-1.04)	0.49	0.96 (0.91-1.02)	0.18
Multi-level logistic regression of adjusted odds ratio of 10% increase in area own-ethnic density and obesity prevalence by ethnic group, (obesity cut off 27.5 for Asian groups)				
Bangladeshi	1.00 (0.95-1.04)	0.926	1.04 (1.05-1.07)	0.024
Black African	1.18 (1.08-1.30)	<0.001	1.17 (1.08-1.27)	<0.001
Indian	0.94 (0.89-1.00)	0.064	1.05 (0.98-1.13)	0.171
Pakistani	1.09 (1.00-1.19)	0.044	1.06 (0.95-1.19)	0.287
White British	0.98 (0.93-1.04)	0.60	0.99 (0.94-1.05)	0.756
Multi-level logistic regression of adjusted* odds ratio of 10% increase in area own-ethnic density and obesity or overweight prevalence by broad ethnic group				
Asian (Bangladeshi, Indian, Pakistani)	1.02 (0.9-9-1.06)	0.20	0.97 (0.94-1.01)	0.15
Black (African and Caribbean)	1.03 (0.97-1.09)	0.30	1.04 (0.97-1.12)	0.29
White European (White British, Irish, European)	0.96 (0.93-0.99)	0.04	0.98 (0.94-1.02)	0.28

