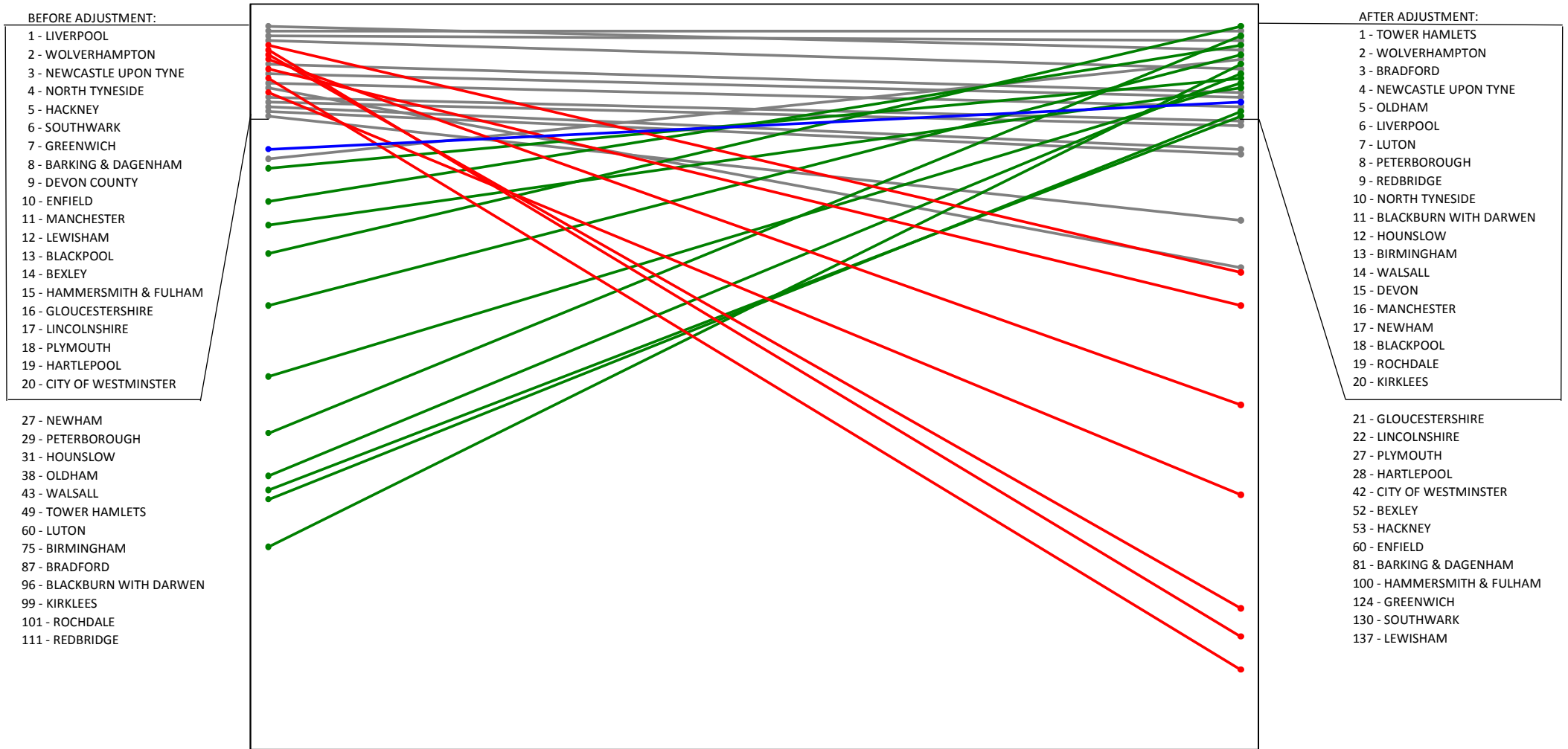


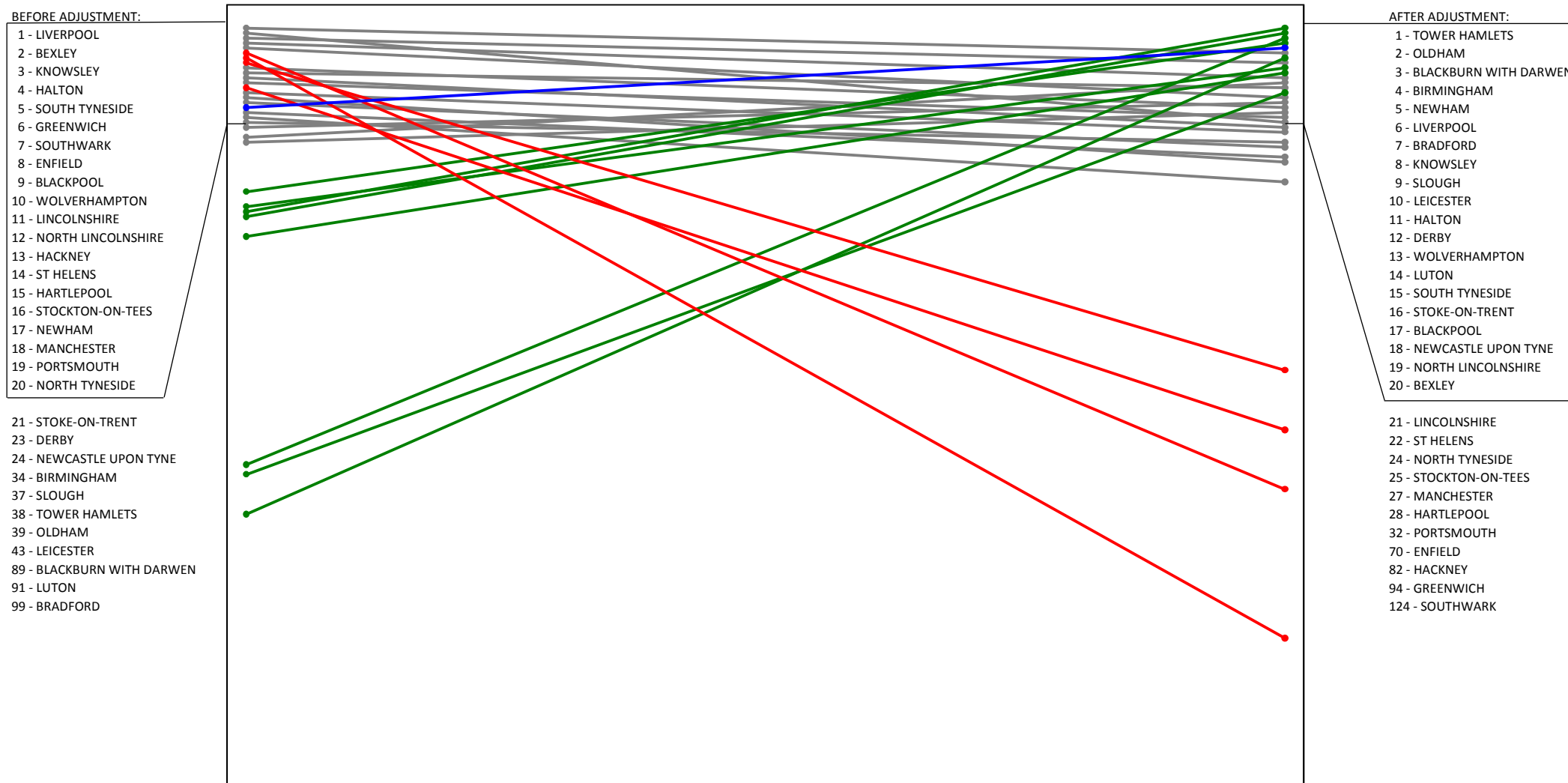
SUPPLEMENTARY FIGURE 1: TOP 20 RANKED LOCAL AUTHORITIES OF ENGLAND BASED ON PREVALENCE OF OVERWEIGHT-OBESITY IN 4-5 YEAR OLD BOYS IN THE NATIONAL CHILD MEASUREMENT PROGRAMME (2012-13) BEFORE (LEFT) AND AFTER (RIGHT) BMI ADJUSTMENTS



Line colours represent the prevalence of specific ethnic minority groups in individual boroughs.

Grey = South Asian & Blacks < 20%, Green = South Asian ≥ 20% & Blacks < 20%, Red = Blacks ≥ 20% & South Asian < 20%, Blue = South Asian & Blacks ≥ 20%

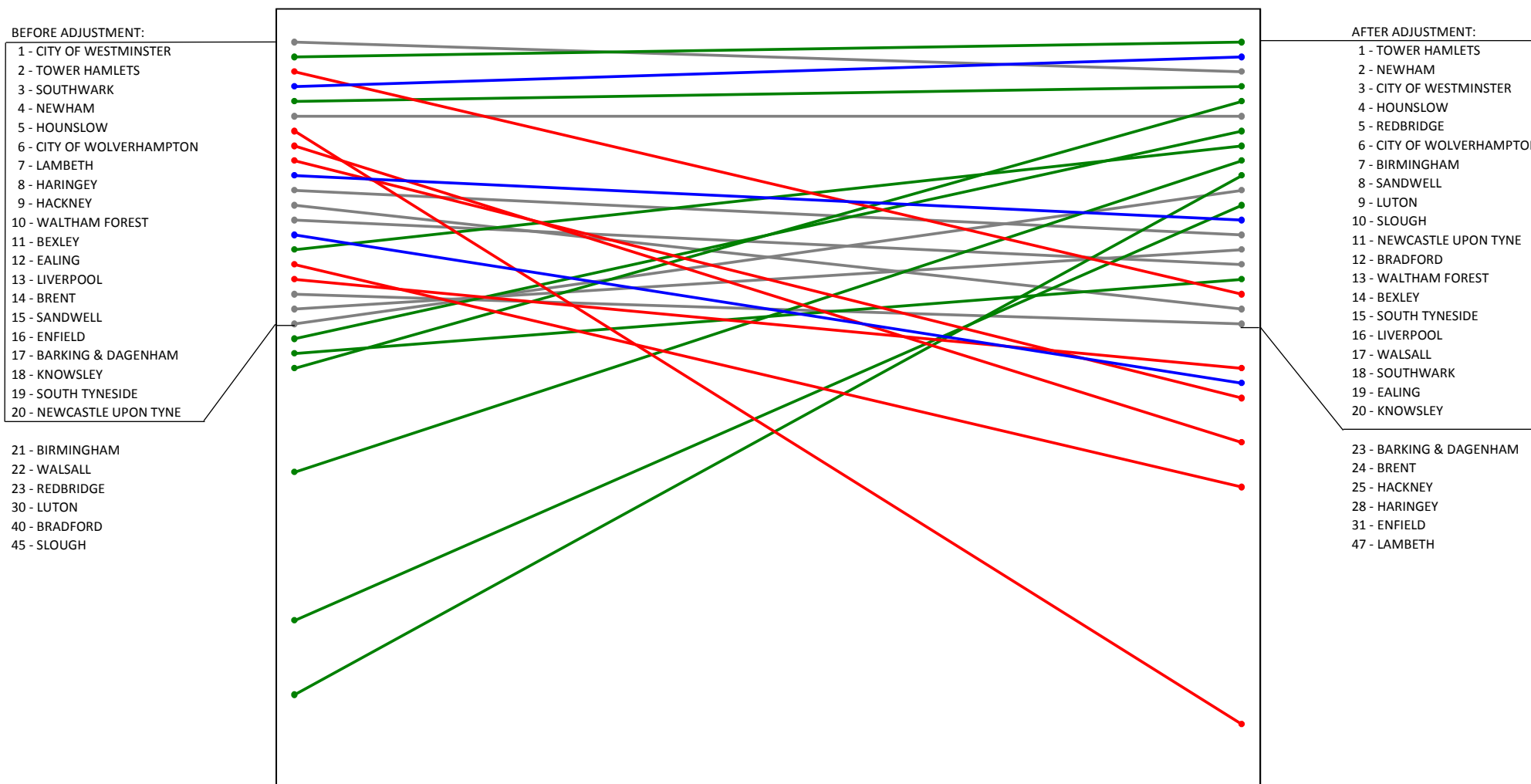
SUPPLEMENTARY FIGURE 2: TOP 20 RANKED LOCAL AUTHORITIES OF ENGLAND BASED ON PREVALENCE OF OVERWEIGHT-OBESITY IN 4-5 YEAR OLD GIRLS IN THE NATIONAL CHILD MEASUREMENT PROGRAMME (2012-13) BEFORE (LEFT) AND AFTER (RIGHT) BMI ADJUSTMENTS



Line colours represent the prevalence of specific ethnic minority groups in individual boroughs.

Grey = South Asian & Blacks < 20%, Green = South Asian ≥ 20% & Blacks < 20%, Red = Blacks ≥ 20% & South Asian < 20%, Blue = South Asian & Blacks ≥ 20%

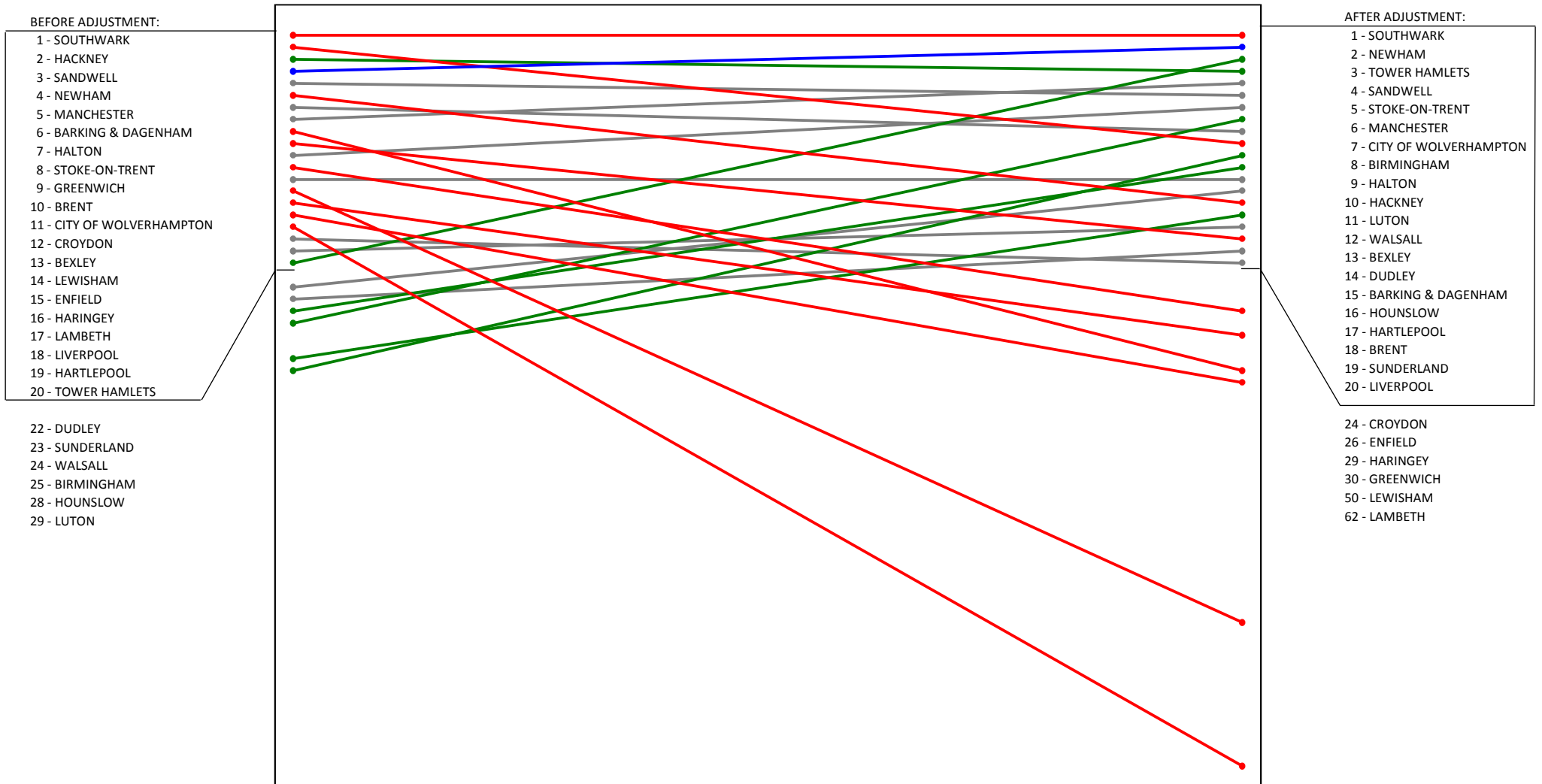
SUPPLEMENTARY FIGURE 3: TOP 20 RANKED LOCAL AUTHORITIES OF ENGLAND BASED ON PREVALENCE OF OVERWEIGHT-OBESITY IN 10-11 YEAR OLD BOYS IN THE NATIONAL CHILD MEASUREMENT PROGRAMME (2012-13) BEFORE (LEFT) AND AFTER (RIGHT) BMI ADJUSTMENTS



Line colours represent the prevalence of specific ethnic minority groups in individual boroughs.

Grey = South Asian & Blacks < 20%, Green = South Asian ≥ 20% & Blacks < 20%, Red = Blacks ≥ 20% & South Asian < 20%, Blue = South Asian & Blacks ≥ 20%

SUPPLEMENTARY FIGURE 4: TOP 20 RANKED LOCAL AUTHORITIES OF ENGLAND BASED ON PREVALENCE OF OVERWEIGHT-OBESITY IN 10-11 YEAR OLD GIRLS IN THE NATIONAL CHILD MEASUREMENT PROGRAMME (2012-13) BEFORE (LEFT) AND AFTER (RIGHT) BMI ADJUSTMENTS



Line colours represent the prevalence of specific ethnic minority groups in individual boroughs.

Grey = South Asian & Blacks < 20%, Green = South Asian ≥ 20% & Blacks < 20%, Red = Blacks ≥ 20% & South Asian < 20%, Blue = South Asian & Blacks ≥ 20%

SUPPLEMENTARY TABLE 1: BODY MASS INDEX ADJUSTMENT FACTORS FOR BLACK AFRICAN CHILDREN BY SEX AND AGE GROUP

BMI (kg/m <sup>2</sup> )	Boys Adjusted BMI (kg/m <sup>2</sup> )		Girls Adjusted BMI (kg/m <sup>2</sup> )	
	4-5 years	10-11 years	4-5 years	10-11 years
13	12.57	12.76	12.51	12.78
14	13.37	13.64	13.31	13.67
15	14.17	14.52	14.12	14.55
16	14.97	15.40	14.92	15.44
17	15.77	16.29	15.72	16.32
18	16.57	17.17	16.52	17.21
19	17.37	18.05	17.33	18.10
20	18.17	18.93	18.13	18.98
21	18.97	19.81	18.93	19.87
22	19.77	20.69	19.74	20.76
23	20.57	21.57	20.54	21.64
24	21.16	22.45	21.34	22.53
25	22.16	23.33	22.14	23.42

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SUPPLEMENTARY TABLE 2: LOCAL AUTHORITY PREVALENCES BEFORE AND AFTER BMI ADJUSTMENT BY SEX AND AGE GROUP IN THE NATIONAL CHILD MEASUREMENT PROGRAMME (2012-13)

Area	Boys				Girls			
	Overweight-Obese				Overweight-Obese			
	4-5 Years old		10-11 Years old		4-5 Years old		10-11 Years old	
	Before	After	Before	After	Before	After	Before	After
BARKING AND DAGENHAM (LONDON BORO)	27.5%	23.3%	40.9%	40.2%	23.9%	20.9%	38.7%	37.4%
BARNET (LONDON BORO)	25.4%	23.9%	37.3%	36.5%	21.7%	20.9%	29.4%	29.2%
BARNSELY DISTRICT	22.9%	22.8%	36.3%	36.1%	23.6%	23.6%	34.4%	34.4%
BATH AND NORTH EAST SOMERSET	24.2%	24.2%	27.6%	27.6%	22.7%	22.9%	25.0%	25.0%
BEDFORD	24.2%	26.2%	36.4%	37.5%	23.5%	24.6%	32.7%	33.0%
BEXLEY (LONDON BORO)	26.7%	24.4%	41.5%	41.2%	26.9%	25.0%	38.1%	37.7%
BIRMINGHAM DISTRICT	23.1%	28.2%	40.7%	43.6%	23.4%	27.3%	36.3%	38.9%
BLACKBURN WITH DARWEN	22.5%	28.4%	32.9%	37.6%	20.9%	27.6%	30.4%	34.9%
BLACKPOOL	26.9%	27.1%	37.3%	37.3%	25.2%	25.4%	33.0%	33.0%
BOLTON DISTRICT	20.9%	24.3%	36.8%	38.8%	19.2%	21.5%	34.3%	36.0%
BOURNEMOUTH	22.8%	23.4%	32.3%	32.5%	20.4%	20.8%	30.8%	31.0%
BRACKNELL FOREST	18.6%	18.3%	30.1%	29.7%	20.2%	20.0%	23.6%	23.8%
BRADFORD DISTRICT	22.8%	30.8%	37.5%	41.3%	20.4%	27.0%	33.1%	36.4%
BRENT (LONDON BORO)	22.4%	22.7%	41.2%	40.1%	22.3%	21.3%	38.4%	37.1%
BROMLEY (LONDON BORO)	22.6%	20.5%	33.6%	32.8%	19.7%	18.3%	30.3%	29.4%
BUCKINGHAMSHIRE COUNTY	19.6%	21.3%	30.0%	30.6%	18.5%	20.0%	26.5%	27.1%
BURY DISTRICT	21.6%	24.3%	34.8%	35.7%	17.0%	18.7%	31.9%	33.3%
CALDERDALE DISTRICT	21.5%	25.0%	33.1%	34.7%	21.2%	24.2%	28.3%	29.2%
CAMBRIDGESHIRE COUNTY	21.4%	22.1%	29.5%	29.7%	19.0%	19.5%	28.5%	28.6%
CAMDEN (LONDON BORO)	22.3%	23.5%	36.9%	38.2%	19.5%	18.7%	34.2%	33.9%
CENTRAL BEDFORDSHIRE	20.2%	20.0%	29.2%	28.9%	19.2%	19.0%	27.7%	27.7%
CHESHIRE EAST	21.7%	21.9%	30.7%	30.8%	19.6%	19.7%	28.2%	28.3%
CHESHIRE WEST AND CHESTER	24.2%	24.4%	31.8%	31.8%	23.8%	24.1%	31.3%	31.3%
CITY AND COUNTY OF THE CITY OF LONDON**	0%	0%	20.0%	20.0%	0%	0%	0%	0%
CITY OF WESTMINSTER (LONDON BORO)	25.8%	25%	46.3%	45.5%	21.0%	20.7%	31.7%	31.0%
CITY OF BRISTOL	22.0%	21.5%	36.1%	36.1%	21.9%	21.7%	31.9%	31.7%
CITY OF DERBY	23.3%	25.2%	33.0%	34.6%	23.9%	25.8%	33.5%	35.1%
CITY OF KINGSTON UPON HULL	25.3%	25.3%	37.0%	37.3%	20.6%	20.9%	35.5%	35.4%
CITY OF LEICESTER	21.3%	24.9%	36.9%	40.6%	22.8%	26.5%	32.6%	34.6%
CITY OF NOTTINGHAM	23.1%	22.8%	35.6%	36.5%	22.9%	22.7%	34.6%	35.0%
CITY OF PETERBOROUGH	25.3%	28.5%	35.7%	35.8%	21.5%	23.6%	32.5%	32.8%
CITY OF PLYMOUTH	26.2%	26.1%	34.3%	34.3%	23.4%	23.3%	29.7%	29.7%
CITY OF PORTSMOUTH	24.2%	24.2%	38.2%	38.2%	24.2%	24.2%	32.8%	32.8%
CITY OF SOUTHAMPTON	23.5%	24.5%	33.9%	34.1%	21.0%	21.7%	35.1%	35.2%
CITY OF STOKE-ON-TRENT	24.4%	26.3%	37.6%	38.8%	24.0%	25.4%	38.6%	39.9%
CITY OF WOLVERHAMPTON DISTRICT	28.9%	30.8%	42.9%	43.8%	25.1%	25.6%	38.3%	39.0%
CORNWALL	25.7%	25.7%	32.5%	32.5%	22.5%	22.5%	29.2%	29.2%
COUNTY DURHAM	22.6%	22.6%	37.2%	37.3%	21.1%	21.2%	34.7%	34.7%

Area	Boys				Girls			
	Overweight-Obese				Overweight-Obese			
	4-5 Years old		10-11 Years old		4-5 Years old		10-11 Years old	
Before	After	Before	After	Before	After	Before	After	
COUNTY OF HEREFORDSHIRE	21.2%	21.2%	30.7%	30.7%	20.3%	20.3%	27.6%	27.6%
COVENTRY DISTRICT	21.5%	21.9%	34.5%	35.7%	19.7%	20.4%	34.3%	34.7%
CROYDON (LONDON BORO)	25.4%	20.8%	38.3%	36.0%	22.2%	18.6%	38.1%	36.3%
CUMBRIA COUNTY	24.0%	24.0%	38.6%	38.6%	21.5%	21.5%	34.8%	34.8%
DARLINGTON	24.4%	24.4%	33.5%	33.5%	19.8%	20.0%	33.5%	33.7%
DERBYSHIRE COUNTY	22.6%	22.7%	33.1%	33.2%	19.7%	19.9%	30.9%	30.9%
DEVON COUNTY	27.4%	27.6%	31.0%	31.0%	22.0%	22.1%	28.4%	28.4%
DONCASTER DISTRICT	22.5%	22.7%	36.2%	36.4%	21.6%	21.6%	30.6%	30.8%
DORSET COUNTY	21.4%	21.4%	32.1%	32.1%	18.4%	18.4%	25.8%	25.8%
DUDLEY DISTRICT	24.6%	26.1%	37.9%	38.6%	22.5%	23.3%	36.4%	37.5%
EALING (LONDON BORO)	22.8%	25.4%	41.4%	40.9%	22.1%	21.6%	34.6%	34.4%
EAST RIDING OF YORKSHIRE	20.7%	20.8%	34.5%	34.5%	21.2%	21.2%	30.7%	30.8%
EAST SUSSEX COUNTY	21.9%	21.9%	32.3%	32.4%	19.7%	19.7%	27.4%	27.7%
ENFIELD (LONDON BORO)	27.2%	24.2%	40.9%	38.7%	25.2%	21.6%	37.3%	36.0%
ESSEX COUNTY	21.5%	21.3%	32.4%	32.3%	19.2%	19.2%	29.1%	29.1%
GATESHEAD DISTRICT	22.9%	22.8%	38.1%	38.1%	20.7%	20.7%	33.6%	33.7%
GLOUCESTERSHIRE COUNTY	26.6%	26.6%	33.7%	33.9%	22.6%	22.5%	32.0%	32.0%
GREENWICH (LONDON BORO)	28.0%	21.1%	40.0%	37.3%	25.3%	20.6%	38.4%	35.5%
HACKNEY (LONDON BORO)	28.2%	24.4%	41.7%	39.9%	24.8%	21.1%	41.2%	38.4%
HALTON	23.8%	23.8%	34.6%	34.6%	26.0%	26.0%	38.7%	38.7%
HAMMERSMITH AND FULHAM (LONDON BORO)	26.7%	22.3%	39.3%	38.1%	23.7%	19.3%	33.3%	30.9%
HAMPSHIRE COUNTY	20.9%	20.9%	29.7%	29.7%	19.4%	19.4%	25.9%	25.9%
HARINGEY (LONDON BORO)	24.2%	19.6%	41.7%	39.5%	21.1%	18.6%	37.1%	35.5%
HARROW (LONDON BORO)	22.2%	25.0%	38.7%	39.8%	20.2%	23.1%	29.3%	29.6%
HARTLEPOOL	26.0%	26.0%	39.7%	39.7%	24.4%	24.4%	36.8%	37.2%
HAVERING (LONDON BORO)	20.1%	19.1%	37.5%	36.9%	21.7%	20.7%	32.6%	31.9%
HERTFORDSHIRE COUNTY	20.8%	21.2%	30.6%	30.8%	18.7%	19.0%	26.8%	26.9%
HILLINGDON (LONDON BORO)	22.8%	23.7%	35.0%	36.2%	20.0%	21.7%	34.3%	34.7%
HOUNSLOW (LONDON BORO)	25.0%	28.3%	43.0%	45.2%	21.1%	23.1%	35.8%	37.3%
ISLES OF SCILLY **	33.3%	33.3%	14.3%	14.3%	20.0%	20.0%	0%	0%
ISLE OF WIGHT	23.9%	23.9%	35.8%	35.8%	24.0%	24.0%	29.6%	29.6%
ISLINGTON (LONDON BORO)	24.1%	21.0%	37.7%	36.1%	22.3%	20.4%	35.3%	33.0%
KENSINGTON AND CHELSEA (LONDON BORO)	18.8%	17.0%	35.8%	34.2%	21.4%	19.2%	30.6%	28.2%
KENT COUNTY	22.6%	22.7%	34.0%	33.9%	20.9%	21.0%	31.3%	31.4%
KINGSTON UPON THAMES (LONDON BORO)	16.4%	17.2%	33.2%	33.8%	15.7%	16.5%	27.1%	27.4%
KIRKLEES DISTRICT	22.4%	27.1%	33.3%	34.9%	20.7%	24.3%	30.8%	32.8%
KNOWSLEY DISTRICT	25.6%	25.6%	40.9%	40.9%	26.7%	26.7%	36.5%	36.5%
LAMBETH (LONDON BORO)	23.6%	16.6%	41.8%	37.1%	23.4%	18.4%	37.1%	33.5%
LANCASHIRE COUNTY	24.6%	26.3%	34.2%	34.8%	22.4%	23.6%	30.6%	31.1%
LEEDS DISTRICT	23.3%	23.3%	34.7%	35.6%	22.4%	23.0%	32.9%	33.5%

Area	Boys				Girls			
	Overweight-Obese				Overweight-Obese			
	4-5 Years old		10-11 Years old		4-5 Years old		10-11 Years old	
	Before	After	Before	After	Before	After	Before	After
LEICESTERSHIRE COUNTY	22.4%	23.3%	32.8%	33.2%	19.2%	19.9%	29.7%	30.2%
LEWISHAM (LONDON BORO)	27.0%	19.1%	39.1%	35.8%	22.9%	17.2%	37.5%	34.3%
LINCOLNSHIRE COUNTY	26.4%	26.4%	34.5%	34.5%	24.9%	24.9%	35.2%	35.2%
LIVERPOOL DISTRICT	30.1%	30.0%	41.3%	41.1%	27.1%	27.1%	36.9%	36.6%
LUTON	23.8%	29.4%	38.8%	42.1%	20.8%	25.6%	35.5%	38.0%
MANCHESTER DISTRICT	27.1%	27.6%	4.00%	40.4%	24.3%	24.4%	38.9%	39.3%
MEDWAY	24.0%	24.2%	34.1%	34.8%	22.4%	22.3%	31.6%	31.7%
MERTON (LONDON BORO)	22.1%	22.0%	36.4%	36.4%	20.0%	18.5%	33.5%	32.6%
MIDDLESBROUGH *	27.3%	29.7%	35.2%	36.0%	25.8%	27.5%	37.4%	38.8%
MILTON KEYNES	23.6%	22.4%	34.0%	34.1%	20.8%	21.2%	30.7%	29.6%
NEWCASTLE UPON TYNE DISTRICT	28.6%	30.1%	40.8%	41.3%	23.9%	25.2%	34.7%	35.4%
NEWHAM (LONDON BORO)	25.3%	27.6%	43.9%	45.8%	24.3%	27.1%	39.9%	41.2%
NORFOLK COUNTY	24.7%	24.6%	33.8%	33.7%	21.2%	21.2%	30.4%	30.4%
NORTHAMPTONSHIRE COUNTY	22.8%	22.7%	33.9%	33.9%	19.7%	19.6%	31.5%	31.5%
NORTHUMBERLAND	23.4%	23.4%	33.3%	33.3%	21.8%	21.9%	28.7%	28.7%
NORTH EAST LINCOLNSHIRE	24.3%	24.3%	34.5%	34.5%	21.8%	21.8%	33.5%	33.5%
NORTH LINCOLNSHIRE	24.8%	25.4%	36.1%	36.5%	24.8%	25.1%	30.6%	31.1%
NORTH SOMERSET	25.7%	25.8%	32.2%	32.1%	22.9%	23.0%	30.0%	30.0%
NORTH TYNESIDE DISTRICT	28.5%	28.5%	36.0%	36.0%	24.2%	24.5%	34.2%	34.3%
NORTH YORKSHIRE COUNTY	22.8%	22.9%	29.1%	29.2%	19.6%	19.7%	27.7%	27.7%
NOTTINGHAMSHIRE COUNTY	22.3%	22.8%	33.1%	33.2%	20.6%	20.7%	29.1%	29.3%
OLDHAM DISTRICT	24.6%	30.0%	36.2%	37.8%	23.0%	28.0%	31.8%	33.0%
OXFORDSHIRE COUNTY	19.8%	19.9%	30.1%	30.2%	16.8%	17.0%	26.9%	27.0%
POOLE	23.7%	23.9%	28.8%	28.8%	22.6%	22.8%	26.7%	26.7%
READING	23.1%	23.1%	33.3%	34.2%	20.9%	20.9%	35.9%	36.2%
REDBRIDGE (LONDON BORO)	21.9%	28.5%	40.1%	43.9%	19.5%	24.4%	32.1%	35.0%
REDCAR AND CLEVELAND *	33.2%	33.2%	42.9%	42.9%	31.4%	31.4%	37.4%	37.4%
RICHMOND UPON THAMES (LONDON BORO)	18.2%	19.0%	30.1%	29.9%	14.3%	14.5%	22.1%	22.6%
ROCHDALE DISTRICT	22.3%	27.1%	33.5%	35.1%	21.3%	23.9%	33.9%	36.4%
ROTHERHAM DISTRICT	23.4%	24.8%	36.7%	37.5%	20.9%	22.0%	33.8%	34.5%
RUTLAND **	26.0%	26.0%	25.6%	25.6%	19.9%	19.9%	22.1%	22.1%
SALFORD DISTRICT	23.6%	23.2%	35.9%	35.5%	22.4%	22.1%	36.0%	35.9%
SANDWELL DISTRICT	22.1%	25.5%	41.0%	42.2%	21.5%	23.8%	40.1%	40.5%
SEFTON DISTRICT	25.3%	25.3%	35.3%	35.3%	21.5%	21.5%	35.1%	35.1%
SHEFFIELD DISTRICT	20.7%	21.9%	35.3%	35.8%	18.4%	19.1%	32.1%	32.5%
SHROPSHIRE	23.8%	23.8%	34.2%	34.2%	20.0%	20.1%	30.8%	30.8%
SLOUGH	20.9%	22.7%	37.0%	41.7%	23.2%	26.5%	31.3%	33.8%
SOLIHULL DISTRICT	21.3%	23.1%	29.5%	30.6%	16.8%	17.4%	27.1%	28.3%
SOMERSET COUNTY	24.7%	24.7%	29.7%	29.7%	21.8%	22.0%	28.7%	28.7%
SOUTHEND-ON-SEA	24.3%	24.0%	33.6%	33.9%	21.3%	21.5%	30.0%	30.1%



Area	Boys				Girls			
	Overweight-Obese				Overweight-Obese			
	4-5 Years old		10-11 Years old		4-5 Years old		10-11 Years old	
	Before	After	Before	After	Before	After	Before	After
SOUTHWARK (LONDON BORO)	28.1%	20.3%	44.4%	40.9%	25.3%	18.8%	44.1%	42.2%
SOUTH GLOUCESTERSHIRE	17.7%	17.9%	30.6%	30.5%	15.8%	15.9%	29.8%	30.0%
SOUTH TYNESIDE DISTRICT	22.8%	23.3%	40.8%	41.1%	25.4%	25.4%	34.1%	34.8%
STAFFORDSHIRE COUNTY	24.1%	24.5%	35.0%	35.3%	23.6%	23.7%	32.0%	32.2%
STOCKPORT DISTRICT	23.8%	24.6%	30.9%	31.1%	19.5%	19.9%	31.4%	32.1%
STOCKTON-ON-TEES	21.2%	21.2%	35.7%	35.7%	24.4%	24.5%	34.1%	34.1%
ST HELENS DISTRICT	24.5%	24.5%	36.9%	36.9%	24.6%	24.6%	35.0%	35.0%
SUFFOLK COUNTY	22.0%	22.3%	31.9%	31.9%	19.9%	19.9%	28.9%	29.0%
SUNDERLAND DISTRICT	25.4%	25.7%	34.7%	34.9%	22.7%	23.2%	36.4%	36.8%
SURREY COUNTY	18.7%	19.1%	27.9%	28.2%	16.6%	16.8%	25.1%	25.4%
SUTTON (LONDON BORO)	21.4%	21.3%	35.3%	36.1%	18.4%	18.7%	30.3%	30.5%
SWINDON	23.3%	23.8%	34.7%	34.9%	23.3%	23.7%	30.8%	31.9%
TAMESIDE DISTRICT	23.0%	23.0%	34.3%	34.3%	23.6%	23.6%	32.2%	32.5%
TELFORD AND WREKIN	24.6%	25.3%	36.5%	36.9%	23.7%	24.5%	33.3%	33.7%
THE CITY OF BRIGHTON AND HOVE	22.7%	22.2%	27.8%	27.5%	19.8%	19.8%	25.5%	25.3%
THURROCK	23.8%	21.3%	37.1%	35.6%	20.3%	18.8%	33.6%	32.5%
TORBAY *	29.2%	29.2%	39.4%	39.4%	26.9%	26.9%	37.8%	37.8%
TOWER HAMLETS (LONDON BORO)	24.2%	35.5%	45.9%	51.7%	23.2%	32.0%	36.7%	41.1%
TRAFFORD DISTRICT	18.9%	18.9%	34.1%	34.1%	19.2%	19.1%	31.8%	31.9%
WAKEFIELD DISTRICT	24.1%	24.4%	34.6%	34.6%	21.1%	21.7%	33.3%	33.8%
WALSALL DISTRICT	24.3%	28.2%	40.4%	41.0%	21.3%	23.7%	36.3%	37.8%
WALTHAM FOREST (LONDON BORO)	22.7%	23.4%	41.6%	41.2%	19.4%	19.7%	34.3%	33.5%
WANDSWORTH (LONDON BORO)	23.3%	21.8%	39.8%	37.6%	20.8%	18.6%	30.7%	29.6%
WARRINGTON	23.0%	23.7%	33.2%	33.4%	20.7%	20.9%	29.9%	30.1%
WARWICKSHIRE COUNTY	21.0%	21.7%	31.8%	32.1%	18.9%	19.6%	29.9%	30.2%
WEST BERKSHIRE	19.6%	19.6%	30.1%	30.2%	17.9%	17.9%	27.8%	28.1%
WEST SUSSEX COUNTY	21.7%	21.9%	30.4%	30.7%	19.6%	19.8%	26.4%	26.6%
WIGAN DISTRICT	21.4%	21.4%	33.0%	33.0%	21.9%	21.9%	30.7%	30.7%
WILTSHIRE	23.7%	23.4%	29.5%	29.4%	18.8%	18.7%	29.2%	29.2%
WINDSOR AND MAIDENHEAD	15.8%	17.4%	25.7%	27.6%	16.7%	17.5%	29.9%	30.9%
WIRRAL DISTRICT	22.1%	22.2%	33.2%	33.3%	22.5%	22.6%	33.1%	33.2%
WOKINGHAM	17.9%	17.9%	27.6%	28.6%	15.1%	15.1%	24.8%	25.1%
WORCESTERSHIRE COUNTY	24.8%	25.3%	33.1%	33.4%	21.0%	21.3%	30.7%	31.1%
YORK	22.0%	22.1%	31.3%	31.3%	20.4%	20.4%	29.9%	29.9%

\* Potential Data Quality issues in these areas

\*\* Areas with <1000 individuals

**SUPPLEMENTARY TABLE 3: LOCAL AUTHORITY RANKINGS BASED ON OVERWEIGHT-OBESITY BEFORE AND AFTER BMI ADJUSTMENT BY AGE AND SEX IN THE NATIONAL CHILD MEASUREMENT PROGRAMME (2012-13)**

Area	4-5 Years old				10-11 Years old			
	Boys		Girls		Boys		Girls	
	Overweight-Obese	Overweight-Obese	Overweight-Obese	Overweight-Obese	Overweight-Obese	Overweight-Obese	Overweight-Obese	Overweight-Obese
Before	After	Before	After	Before	After	Before	After	
BARKING AND DAGENHAM (LONDON BORO)	8	81	25	84	17	23	6	15
BARNET (LONDON BORO)	26	66	66	88	41	52	114	117
BARNSELY DISTRICT	80	88	29	41	55	60	41	49
BATH AND NORTH EAST SOMERSET	47	62	44	51	144	144	143	144
BEDFORD	46	25	32	23	53	41	66	67
BEXLEY (LONDON BORO)	14	52	2	20	11	14	13	13
BIRMINGHAM DISTRICT	75	13	34	4	21	7	25	8
BLACKBURN WITH DARWEN	96	11	89	3	110	39	101	40
BLACKPOOL	13	18	9	17	42	44	63	68
BOLTON DISTRICT	128	59	127	74	50	29	42	27
BOURNEMOUTH	86	75	100	89	114	113	87	91
BRACKNELL FOREST	141	140	103	101	130	135	145	145
BRADFORD DISTRICT	87	3	99	7	40	12	61	22
BRENT (LONDON BORO)	98	95	56	77	14	24	10	18
BROMLEY (LONDON BORO)	91	129	115	136	94	111	102	113
BUCKINGHAMSHIRE COUNTY	136	118	133	100	133	128	137	134
BURY DISTRICT	114	58	138	129	72	68	76	63
CALDERDALE DISTRICT	117	41	77	31	104	81	125	116
CAMBRIDGESHIRE COUNTY	121	105	129	115	138	137	123	123
CAMDEN (LONDON BORO)	102	74	119	126	47	34	46	53
CENTRAL BEDFORDSHIRE	133	131	128	123	139	140	128	130
CHESHIRE EAST	113	108	118	109	125	124	126	126
CHESHIRE WEST AND CHESTER	51	55	26	33	120	120	85	86
CITY OF WESTMINSTER (LONDON BORO)	20	42	84	92	1	3	79	90
CITY OF BRISTOL	109	114	61	67	59	59	75	82
CITY OF DERBY	71	40	23	12	108	84	57	36
CITY OF KINGSTON UPON HULL	30	37	97	86	46	43	30	31
CITY OF LEICESTER	123	44	43	10	49	21	67	46
CITY OF NOTTINGHAM	76	89	42	53	66	53	40	39
CITY OF PETERBOROUGH	29	8	68	42	64	65	69	71
CITY OF PLYMOUTH	18	27	33	44	82	89	111	108
CITY OF PORTSMOUTH	48	63	19	32	34	35	65	70
CITY OF SOUTHAMPTON	68	50	83	66	90	94	34	33
CITY OF STOKE-ON-TRENT	41	23	21	16	38	30	8	5
CITY OF WOLVERHAMPTON DISTRICT	2	2	10	13	6	6	11	7
CORNWALL	21	30	49	55	112	112	116	115
COUNTY DURHAM	93	98	79	81	43	46	38	44
COUNTY OF HEREFORDSHIRE	124	121	101	98	124	126	130	132
COVENTRY DISTRICT	116	109	114	97	78	69	44	43
CROYDON (LONDON BORO)	25	127	57	132	33	62	12	24

Area	<u>4-5 Years old</u>				<u>10-11 Years old</u>			
	<u>Boys</u>		<u>Girls</u>		<u>Boys</u>		<u>Girls</u>	
	Overweight-Obese		Overweight-Obese		Overweight-Obese		Overweight-Obese	
	Before	After	Before	After	Before	After	Before	After
CUMBRIA COUNTY	56	65	71	75	32	33	36	42
DARLINGTON	42	56	110	102	97	102	55	57
DERBYSHIRE COUNTY	92	96	113	105	106	109	86	93
DEVON COUNTY	9	15	59	58	122	123	124	124
DONCASTER DISTRICT	95	93	67	69	56	54	97	95
DORSET COUNTY	120	116	135	135	117	116	140	140
DUDLEY DISTRICT	36	26	50	45	36	32	22	14
EALING (LONDON BORO)	85	34	58	71	12	19	39	48
EAST RIDING OF YORKSHIRE	132	128	78	80	81	87	93	96
EAST SUSSEX COUNTY	110	110	111	112	115	114	131	131
ENFIELD (LONDON BORO)	10	60	8	70	16	31	15	26
ESSEX COUNTY	115	120	125	119	113	115	118	119
GATESHEAD DISTRICT	81	90	94	90	35	37	52	56
GLOUCESTERSHIRE COUNTY	16	21	46	56	93	97	74	78
GREENWICH (LONDON BORO)	7	124	6	94	24	45	9	30
HACKNEY (LONDON BORO)	5	53	13	82	9	25	2	10
HALTON	62	70	4	11	77	83	7	9
HAMMERSMITH AND FULHAM (LONDON BORO)	15	100	28	117	28	36	58	94
HAMPSHIRE COUNTY	129	126	123	116	134	134	139	139
HARINGEY (LONDON BORO)	50	133	81	130	8	28	16	29
HARROW (LONDON BORO)	103	43	104	48	31	26	115	110
HARTLEPOOL	19	28	15	28	27	27	19	17
HAVERING (LONDON BORO)	134	135	65	93	39	50	68	79
HERTFORDSHIRE COUNTY	130	122	132	122	127	125	135	136
HILLINGDON (LONDON BORO)	82	73	106	65	71	56	45	45
HOUNSLOW (LONDON BORO)	31	12	82	47	5	4	28	16
ISLE OF WIGHT	57	68	22	34	62	63	113	112
ISLINGTON (LONDON BORO)	52	125	55	96	37	58	31	65
KENSINGTON AND CHELSEA (LONDON BORO)	139	145	72	118	63	92	96	127
KENT COUNTY	94	92	86	83	89	98	84	85
KINGSTON UPON THAMES (LONDON BORO)	145	144	144	143	101	100	132	133
KIRKLEES DISTRICT	99	20	95	30	99	78	89	69
KNOWSLEY DISTRICT	23	32	3	8	18	20	21	21
LAMBETH (LONDON BORO)	67	146	35	134	7	47	17	62
LANCASHIRE COUNTY	39	24	54	40	85	80	99	87
LEEDS DISTRICT	74	80	53	49	74	70	64	61
LEICESTERSHIRE COUNTY	97	82	126	104	111	107	112	101
LEWISHAM (LONDON BORO)	12	137	41	140	29	66	14	50
LINCOLNSHIRE COUNTY	17	22	11	21	79	85	32	34
LIVERPOOL DISTRICT	1	6	1	6	13	16	18	20
LUTON	60	7	91	14	30	9	29	11
MANCHESTER DISTRICT	11	16	18	27	25	22	5	6
MEDWAY	55	61	51	57	86	79	80	83
MERTON (LONDON BORO)	104	106	107	133	54	55	56	72
MILTON KEYNES	65	99	90	78	88	93	95	109

Area	4-5 Years old				10-11 Years old			
	Boys		Girls		Boys		Girls	
	Overweight-Obese		Overweight-Obese		Overweight-Obese		Overweight-Obese	
	Before	After	Before	After	Before	After	Before	After
NEWCASTLE UPON TYNE DISTRICT	3	4	24	18	20	11	37	32
NEWHAM (LONDON BORO)	27	17	17	5	4	2	4	2
NORFOLK COUNTY	35	47	76	79	92	101	100	100
NORTHAMPTONSHIRE COUNTY	84	97	112	113	91	99	81	84
NORTHUMBERLAND	69	76	62	63	100	106	121	121
NORTH EAST LINCOLNSHIRE	45	57	63	64	80	86	54	59
NORTH LINCOLNSHIRE	32	35	12	19	58	51	98	89
NORTH SOMERSET	22	29	40	50	116	117	105	106
NORTH TYNESIDE DISTRICT	4	10	20	24	60	61	47	51
NORTH YORKSHIRE COUNTY	88	87	116	110	140	139	129	129
NOTTINGHAMSHIRE COUNTY	100	91	96	91	107	108	119	114
OLDHAM DISTRICT	38	5	39	2	57	38	78	66
OXFORDSHIRE COUNTY	135	132	139	141	129	132	134	135
POOLE	63	67	47	52	141	141	136	137
READING	77	84	87	85	98	91	27	25
REDBRIDGE (LONDON BORO)	111	9	121	29	23	5	71	38
RICHMOND UPON THAMES (LONDON BORO)	142	138	146	146	132	133	146	146
ROCHDALE DISTRICT	101	19	73	35	96	75	50	23
ROTHERHAM DISTRICT	70	45	88	60	51	42	51	47
SALFORD DISTRICT	66	83	52	59	61	72	26	28
SANDWELL DISTRICT	105	33	69	36	15	8	3	4
SEFTON DISTRICT	28	36	70	73	67	73	33	35
SHEFFIELD DISTRICT	131	107	134	121	68	64	72	74
SHROPSHIRE	58	69	105	99	84	90	90	97
SLOUGH	127	94	37	9	45	10	83	55
SOLIHULL DISTRICT	122	85	140	139	137	129	133	125
SOMERSET COUNTY	34	46	64	61	135	136	122	122
SOUTHEND-ON-SEA	44	64	74	72	95	96	104	103
SOUTHWARK (LONDON BORO)	6	130	7	124	3	18	1	1
SOUTH GLOUCESTERSHIRE	144	142	143	144	126	130	110	105
SOUTH TYNESIDE DISTRICT	83	79	5	15	19	15	49	41
STAFFORDSHIRE COUNTY	54	51	30	37	70	74	73	76
STOCKPORT DISTRICT	59	48	120	106	123	122	82	77
STOCKTON-ON-TEES	125	123	16	25	65	67	48	52
ST HELENS DISTRICT	40	49	14	22	48	48	35	37
SUFFOLK COUNTY	107	101	108	103	118	119	120	120
SUNDERLAND DISTRICT	24	31	45	46	75	76	23	19
SURREY COUNTY	140	136	142	142	142	143	142	141
SUTTON (LONDON BORO)	118	119	136	128	69	57	103	99
SWINDON	73	71	36	39	73	77	88	81
TAMESIDE DISTRICT	79	86	31	43	83	88	70	75
TELFORD AND WREKIN	37	38	27	26	52	49	60	58
THE CITY OF BRIGHTON AND HOVE	90	102	109	107	143	146	141	142
THURROCK	61	117	102	125	44	71	53	73
TOWER HAMLETS (LONDON BORO)	49	1	38	1	2	1	20	3

Area	<u>4-5 Years old</u>				<u>10-11 Years old</u>			
	<u>Boys</u>		<u>Girls</u>		<u>Boys</u>		<u>Girls</u>	
	Overweight-Obese		Overweight-Obese		Overweight-Obese		Overweight-Obese	
	Before	After	Before	After	Before	After	Before	After
TRAFFORD DISTRICT	138	139	124	120	87	95	77	80
WAKEFIELD DISTRICT	53	54	80	68	76	82	59	54
WALSALL DISTRICT	43	14	75	38	22	17	24	12
WALTHAM FOREST (LONDON BORO)	89	78	122	111	10	13	43	60
WANDSWORTH (LONDON BORO)	72	112	92	131	26	40	91	111
WARRINGTON	78	72	93	87	103	103	108	104
WARWICKSHIRE COUNTY	126	113	130	114	119	118	109	102
WEST BERKSHIRE	137	134	137	137	131	131	127	128
WEST SUSSEX COUNTY	112	111	117	108	128	127	138	138
WIGAN DISTRICT	119	115	60	62	109	110	94	98
WILTSHIRE	64	77	131	127	136	138	117	118
WINDSOR AND MAIDENHEAD	146	143	141	138	146	145	107	92
WIRRAL DISTRICT	106	103	48	54	102	105	62	64
WOKINGHAM	143	141	145	145	145	142	144	143
WORCESTERSHIRE COUNTY	33	39	85	76	105	104	92	88
YORK	108	104	98	95	121	121	106	107

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SUPPLEMENTARY TABLE 4: PREVALENCE OF BEING OVERWEIGHT OR OBESE USING NCMP CLINICAL REPORTING THRESHOLDS<sup>1</sup> BY AGE GROUP AND SEX IN THE NATIONAL CHILD MEASUREMENT PROGRAMME (2012-13)

Ethnic Group	Prevalence of Overweight-Obesity using Clinical thresholds <sup>1</sup> , % (95% CI)							
	Before BMI adjustment		After BMI adjustment		Before BMI adjustment		After BMI adjustment	
	Overweight	Obese	Overweight	Obese	Overweight	Obese	Overweight	Obese
	<b>4-5 Year old Boys (N=297,887)</b>				<b>10-11 Year old Boys (N=248,783)</b>			
White	10.0 (9.8 - 10.1)	4.6 (4.5 - 4.7)			14.1 (13.9 - 14.2)	11.2 (11.1 - 11.4)		
Black - All	12.8 (12.2 - 13.3)	9.7 (9.3 - 10.2)	4.5 (4.2 - 4.9)	2.8 (2.6 - 3.1)	16.5 (15.8 - 17.2)	17.5 (16.8 - 18.2)	13.9 (13.3 - 14.6)	11.2 (10.6 - 11.8)
Black African	13.6 (12.9 - 14.3)	10.8 (10.2 - 11.4)	5.2 (4.7 - 5.6)	3.1 (2.7 - 3.5)	16.9 (15.9 - 17.8)	17.7 (16.7 - 18.6)	14.8 (13.9 - 15.7)	10.7 (9.9 - 11.4)
Black Caribbean	10.6 (9.5 - 11.8)	6.8 (5.9 - 7.8)	3.1 (2.5 - 3.7)	1.8 (1.3 - 2.3)	15.8 (14.4 - 17.1)	18 (16.7 - 19.4)	12 (10.9 - 13.2)	12.9 (11.7 - 14.1)
Black - Other	12.2 (11.0 - 13.5)	9.3 (8.2 - 10.4)	3.9 (3.2 - 4.7)	3.0 (2.4 - 3.7)	16.7 (15.1 - 18.2)	16.4 (14.9 - 18)	14.1 (12.6 - 15.5)	10.3 (9 - 11.6)
South Asian - All	7.0 (6.7 - 7.4)	7.6 (7.2 - 7.9)	15.5 (15.0 - 15.9)	13.4 (13.0 - 13.9)	17.2 (16.7 - 17.8)	17.3 (16.8 - 17.8)	20.2 (19.6 - 20.8)	23.7 (23.1 - 24.3)
South Asian - Indian	6.0 (5.5 - 6.6)	6.2 (5.6 - 6.7)	13.9 (13.1 - 14.7)	11.1 (10.4 - 11.9)	17.1 (16.1 - 18.1)	15.3 (14.4 - 16.2)	20.3 (19.3 - 21.4)	21.3 (20.3 - 22.4)
South Asian - Pakistani	7.5 (7.0 - 8.0)	7.9 (7.4 - 8.3)	16.4 (15.8 - 17.1)	14.1 (13.5 - 14.8)	16.9 (16.1 - 17.6)	17.3 (16.5 - 18)	19.8 (19 - 20.6)	23.5 (22.6 - 24.3)
South Asian - Bangladeshi	7.5 (6.7 - 8.3)	9.3 (8.4 - 10.1)	15.6 (14.5 - 16.7)	15.5 (14.4 - 16.6)	18.2 (17 - 19.5)	20.4 (19.1 - 21.7)	21.1 (19.8 - 22.4)	27.7 (26.3 - 29.1)
Other Asian	8.7 (8.0 - 9.4)	6.9 (6.3 - 7.5)			18.6 (17.5 - 19.8)	15.9 (14.8 - 17)		
Other Ethnicity	9.9 (9.5 - 10.3)	6.1 (5.7 - 6.4)			15.7 (15.1 - 16.3)	15.1 (14.5 - 15.7)		
Unknown	10.1 (9.8 - 10.4)	5.5 (5.2 - 5.7)			15.1 (14.8 - 15.5)	12 (11.7 - 12.3)		
Overall	9.9 (9.7 - 10.0)	5.3 (5.3 - 5.4)	10.1 (10.0 - 10.2)	5.5 (5.4 - 5.5)	14.8 (14.6 - 14.9)	12.4 (12.3 - 12.5)	14.9 (14.7 - 15)	12.6 (12.5 - 12.7)
	<b>4-5 Year old Girls (N=285,012)</b>				<b>10-11 Year old Girls (N=236,579)</b>			
White	8.9 (8.8 - 9.1)	4.1 (4 - 4.2)			13.8 (13.6 - 14)	9.1 (8.9 - 9.2)		
Black - All	11.8 (11.2 - 12.3)	9.4 (8.9 - 9.8)	5.3 (5.0 - 5.7)	3.1 (2.8 - 3.4)	18.5 (17.8 - 19.3)	17.5 (16.8 - 18.2)	15.2 (14.6 - 15.9)	11.3 (10.7 - 11.8)
Black African	12.4 (11.7 - 13.1)	10 (9.4 - 10.7)	5.7 (5.2 - 6.2)	3.3 (2.9 - 3.7)	18.9 (17.9 - 19.9)	17.4 (16.4 - 18.3)	15.7 (14.8 - 16.6)	11 (10.3 - 11.8)
Black Caribbean	10.6 (9.4 - 11.7)	8.6 (7.5 - 9.6)	4.7 (3.9 - 5.5)	3 (2.4 - 3.6)	18 (16.6 - 19.4)	18.7 (17.2 - 20.1)	15.4 (14.1 - 16.7)	12.3 (11.1 - 13.5)
Black - Other	10.9 (9.7 - 12.1)	8.1 (7 - 9.1)	4.8 (4 - 5.7)	2.5 (1.9 - 3.1)	18.3 (16.7 - 19.9)	16.1 (14.6 - 17.7)	13.9 (12.5 - 15.3)	10.5 (9.2 - 11.8)
South Asian - All	7.7 (7.4 - 8.1)	5.9 (5.6 - 6.3)	14.2 (13.7 - 14.6)	10.7 (10.3 - 11.1)	15.3 (14.8 - 15.9)	11.3 (10.9 - 11.8)	18.9 (18.3 - 19.4)	15.9 (15.4 - 16.4)
South Asian - Indian	6.5 (5.9 - 7.1)	4.6 (4.1 - 5.1)	12 (11.3 - 12.8)	8.7 (8 - 9.3)	13.9 (13 - 14.8)	9.1 (8.3 - 9.8)	18 (17 - 19.1)	12.8 (11.9 - 13.7)
South Asian - Pakistani	8.1 (7.6 - 8.7)	6.2 (5.8 - 6.7)	15.2 (14.5 - 15.8)	11.2 (10.6 - 11.8)	15.4 (14.7 - 16.2)	12.4 (11.7 - 13)	19 (18.2 - 19.8)	17 (16.2 - 17.7)
South Asian - Bangladeshi	8.7 (7.8 - 9.6)	7.6 (6.8 - 8.5)	15.3 (14.2 - 16.4)	13 (11.9 - 14)	17.2 (16 - 18.4)	12 (11 - 13.1)	19.7 (18.4 - 20.9)	17.7 (16.5 - 19)
Other Asian	7.5 (6.8 - 8.1)	4.8 (4.3 - 5.4)			13.3 (12.3 - 14.3)	8 (7.2 - 8.8)		
Other Ethnicity	9 (8.6 - 9.4)	5.7 (5.3 - 6)			15.1 (14.4 - 15.7)	12.6 (12 - 13.2)		
Unknown	8.8 (8.5 - 9.1)	4.8 (4.6 - 5)			14.1 (13.8 - 14.5)	9.6 (9.3 - 9.8)		
Overall	8.9 (8.8 - 9)	4.7 (4.6 - 4.8)	9.1 (9 - 9.2)	4.8 (4.7 - 4.9)	14.3 (14.1 - 14.4)	9.9 (9.8 - 10)	14.4 (14.2 - 14.5)	10 (9.9 - 10.1)

<sup>1</sup> Clinical thresholds: Overweight: ≥91<sup>st</sup> centile & Obese: ≥98<sup>th</sup> centile