National Child Measurement Programme (NCMP) Analysis 2018/19

Report prepared by:
Nicola Gowers, Public Health Analyst
Saranya Devi Palaniswamy, Public Health Analyst
Public Health Intelligence - Cambridgeshire and Peterborough

Contents

Contents 2

1. Introduction 3

2. Executive Summary 4

3. Comparison of NCMP performance in Cambridgeshire and Peterborough with performance in England 6

Participation 6

Recorded prevalence – Overweight 7

Recorded prevalence - Obesity 8

4. Local National Child Measurement Programme Analysis, 2016/17 - 2018/19 10

4.1 Analysis by geographical area 10

4.2 Analysis by Sex 11

4.3 Analysis by Ethnicity 12

4.4 Analysis by Deprivation Quintile 15

4.5 Electoral Ward Analysis 17

4.6 ONS Area Classification Analysis 19

4.7 Population & Clinical Obesity Definitions Analysis 23

4.8 Small Area Analysis – NCMP Obesity and Overweight Prevalence, Cambridgeshire and Peterborough Lower Super Output Areas, 2016/17 – 2018/19. 25

1. Introduction

This report provides a summary of key findings from the National Child Measurement Programme (NCMP) for pupils in Reception (aged 4 to 5 years) and Year 6 (aged 10 to 11 years) in Cambridgeshire and Peterborough in 2018/19, as well as the three combined years of 2016/17 – 2018/19.

The NCMP measures the height and weight of children to assess overweight and obesity levels in children within primary schools to support local public health initiatives and inform the local planning and delivery of services for children.[1] Children measured as part of the NCMP are grouped according to the below criteria:

NCMP Group	Definition
Underweight	Body Mass Index less than 2nd centile of UK90 growth reference
Healthy weight	Body Mass Index between 2nd and less than 85th centile of UK90 growth reference
Overweight	Body Mass Index greater than or equal to 85th centile but less than 95th centile of the UK90 growth reference
Obese	Body Mass Index greater than or equal to 95th centile of UK90 growth reference
Severe Obesity	Body Mass Index greater than or equal to 99.6th centile of UK90 growth reference

Source: Public Health England NCMP Local Authority Profiles

NCMP data are provided to Public Health teams through a joint agreement between Public Health England and NHS Digital; this is the source of all tables and graphs presented within this report. This report primarily focuses on obesity and severe obesity, but data are available for other weight classifications if required.

Data relate only to maintained schools in Cambridgeshire and Peterborough, with independent and special schools (estimated to comprise approximately 7% of primary school-aged children nationally[2]) excluded. Data exclude pupils who are resident in Cambridgeshire or Peterborough but attend a school located within another geographical area and pupils that attend a school within Cambridgeshire or Peterborough but do not live within the area.

In section 3 of this report, comparison of Cambridgeshire, Cambridgeshire districts and Peterborough data is made to England to illustrate historic and current performance against the national average.[3] In section 4, NCMP data for Cambridgeshire and Peterborough are combined, as well as shown individually. Generally, Cambridgeshire data and Peterborough data are compared with the Cambridgeshire and Peterborough average and data for the districts in Cambridgeshire are compared with the Cambridgeshire average. Where Peterborough data are broken down within Peterborough, they are compared with the Peterborough average.

Data for the local comparisons within this report are aggregated (pooled) across NCMP years in order to increase the statistical validity of the findings and to smooth out annual fluctuations. However, small numbers recorded must be observed with caution.

[1] http://content.digital.nhs.uk/ncmp
[2] https://www.isc.co.uk/research/
[3] Data available from National Child Measurement Programme – England, 2018-19: Tables [online] Available from: https://digital.nhs.uk/data-and-information/publications/statistical/national-child-measurement-programme/2018-19-school-year

2. Executive Summary

- The 2018/19 rate of overweight (including obesity) pupils in Cambridgeshire is 17.7% for Reception pupils and 27.0% for Year 6 pupils. Cambridgeshire has had statistically significantly low percentages of overweight (including obesity) pupils of both Reception and Year 6 age in comparison to England for five consecutive years between 2014/15 and 2018/19.

- The 2018/19 rate of overweight (including obesity) pupils in Peterborough is 21.7% for Reception pupils and 36.9% for Year 6 pupils. Peterborough is statistically similar to England for Reception age pupils, and statistically significantly worse for Year 6 overweight (including obesity) prevalence. In 2017/18, Peterborough was statistically similar among Year 6 pupils for this indicator.

- Pooled data for the 3 years 2016/17 – 2018/19 show that Cambridgeshire has a statistically significantly high percentage of Reception Year pupils with a healthy weight compared to the Cambridgeshire and Peterborough average. However, the percentage of pupils within this age group in Fenland with a healthy weight is statistically significantly low compared to the Cambridgeshire and Peterborough average. For Year 6, Cambridgeshire has a statistically significantly high percentage of pupils with a healthy weight and statistically significantly low percentages of pupils with obesity or severe obesity in comparison to the Cambridgeshire and Peterborough average. Furthermore, Fenland has a statistically significantly low percentage of Year 6 pupils with a healthy weight and statistically significantly high percentages with obesity or severe obesity in comparison to Cambridgeshire and Peterborough.

- Pooled data for 2016/17 – 2018/19 show Peterborough to have a statistically significantly low percentage of Reception and Year 6 pupils with a healthy weight compared to the Cambridgeshire and Peterborough average. Both age groups also have statistically significantly high percentages of pupils with obesity (including severe). 1.6% of Reception Year pupils in Peterborough are underweight which is statistically significantly higher than the Cambridgeshire and Peterborough average.

- There is strong correlation across Cambridgeshire and Peterborough between relative deprivation and recorded prevalence of obesity and severe obesity. Obesity and severe obesity within both the Reception and Year 6 age groups are statistically significantly worse than the Cambridgeshire and Peterborough average in the most deprived quintile for the pooled period 2016/17 – 2018/19 and statistically significantly better than this average for pupils within the least deprived quintile. At electoral ward level across Cambridgeshire and Peterborough, correlation between deprivation and obesity prevalence is stronger in the Year 6 cohort than in pupils of Reception age.

- There are observed inequalities in NCMP overweight/obese/severely obese prevalence between ethnicities across Cambridgeshire and Peterborough, with statistically significantly poor indicator values in comparison to the Cambridgeshire and Peterborough average observed among groups including 'Black-African', ‘Black – Caribbean’, 'Bangladeshi', 'Pakistani' and 'White and Black African' ethnic groups.

- Cambridgeshire NCMP participation rates in 2018/19 are higher than in 2017/18 for Reception pupils and Year 6 pupils. However, Cambridgeshire participation rates remain lower than the national rates.

- Peterborough participation rates in 2018/19 are lower than in 2017/18 for both Reception and Year 6 age groups. Peterborough participation rates are also lower than the national rate for both age groups.

3. Comparison of NCMP performance in Cambridgeshire and Peterborough with performance in England

In this section, NCMP data for Cambridgeshire and Peterborough and constituent areas are compared with the national dataset for England as a whole[4].

Participation

Table 1: National Childhood Measurement Programme Participation Rates 2018/19, Cambridgeshire, Peterborough, & England

Area	Number of children measured		Participation rate (%)	
	Reception	Year 6	Reception	Year 6
Cambridgeshire	6,637	6,364	94.1	91.5
Peterborough	2,797	2,776	90.7	91.6
England	597,812	600,449	95.3	94.5

Based on the Local authority area that submitted (Table 2 in national dataset).
Source: National Child Measurement Programme, NHS Digital

Participation in the NCMP programme is lower than the national rate in Peterborough and Cambridgeshire for both Reception and Year 6 pupils.

Cambridgeshire participation rates in 2018/19 are higher than in 2017/18 for both Reception and Year 6 age groups (2017/18 participation rates were 93.5% for Reception pupils and 90.4% for Year 6 pupils, data not shown).

2018/19 participation rates for Cambridgeshire are 1.2 percentage points below the national rate for Reception pupils and 3.0 percentage points below the national rate for Year 6 pupils.

Peterborough participation rates in 2018/19 are lower than in 2017/18 for both Reception and Year 6 age groups (2017/18 participation rates were 96.1% for Reception pupils and 94.7% for Year 6 pupils, data not shown).

2018/19 participation rates for Peterborough are 4.6% and 2.9% points below the national rate for Reception and year 6 pupils respectively.

Local analysis of non-measurement indicates the primary reasons as ‘parent opt-out’, ‘no longer at school’ and ‘absent’. The proportion of non-measurement appears to be fairly consistent across the five Cambridgeshire districts.

[4] Data available from National Child Measurement Programme – England, 2018-19: Tables [online] Available from: https://digital.nhs.uk/data-and-information/publications/statistical/national-child-measurement-programme/2018-19-school-year

Recorded prevalence – Overweight

Table 2: National Child Measurement Programme Results, Reception Year Overweight (including Obesity) Recorded Prevalence Trend, 2014/15 – 2018/19, Cambridgeshire Districts, Cambridgeshire, Peterborough and England

Area	2014/15	2015/16	2016/17	2017/18	2018/19
Cambridge	17.3%	16.4%	16.9%	15.4%	14.6%
East Cambridgeshire	19.5%	19.7%	16.9%	16.0%	15.2%
Fenland	22.4%	21.4%	20.2%	19.9%	23.3%
Huntingdonshire	20.0%	19.0%	19.7%	17.6%	19.4%
South Cambridgeshire	18.8%	17.3%	18.2%	18.0%	15.7%
Cambridgeshire	19.6%	18.7%	18.5%	17.5%	17.7%
Peterborough	21.3%	22.8%	23.2%	20.9%	21.7%
England	21.9%	22.1%	22.6%	22.4%	22.6%

Local authority areas are assigned based on the postcode of the child (Table 3B in national dataset).
Source: National Child Measurement Programme, NHS Digital

Key
Statistcially significantly better than England
Statistically similar to England
Statistically significantly worse than England

In comparison to England, Cambridge, South Cambridgeshire and Cambridgeshire have had statistically significantly low percentages of Reception age overweight (including obesity) for each of the five years 2014/15 – 2018/19. East Cambridgeshire has also been statistically significantly low since 2015/16.

Fenland has changed from statistically similar Reception Year Overweight (including Obesity) in 2017/18 to statistically significantly lower in 2018/19.

Peterborough had a statistically similar percentage to England since 2014/15.

Table 3: National Child Measurement Programme Results, Year 6 Overweight (including Obesity) Recorded Prevalence Trend, 2014/15-2018/19, Cambridgeshire Districts, Cambridgeshire, Peterborough and England

Area	2014/15	2015/16	2016/17	2017/18	2018/19
Cambridge	25.4%	23.2%	28.7%	27.7%	25.9%
East Cambridgeshire	27.2%	29.2%	23.7%	27.3%	26.7%
Fenland	32.6%	33.9%	34.5%	35.0%	34.7%
Huntingdonshire	27.5%	30.0%	28.2%	29.9%	27.5%
South Cambridgeshire	24.5%	25.1%	22.5%	23.9%	22.9%
Cambridgeshire	27.2%	28.2%	27.1%	28.4%	27.0%
Peterborough	32.2%	34.2%	36.8%	32.8%	36.9%
England	33.2%	34.2%	34.2%	34.3%	34.3%

Local authority areas are assigned based on the postcode of the child (Table 3B in national dataset).
Source: National Child Measurement Programme, NHS Digital

Key
Statistcially significantly better than England
Statistically similar to England
Statistically significantly worse than England

In comparison to England, Cambridgeshire has had a statistically significantly low percentage of Year 6 pupils overweight (including obese) for the five consecutive years 2014/15-2018/19, with statistically significantly low percentages also observed in all Cambridgeshire districts other than Fenland, which has been statistically similar to England for the five year period shown.

Peterborough has changed from statistically significantly similar to England in 2017/18 to statistically significantly worse in 2018/19.

Recorded prevalence - Obesity

Table 4: National Child Measurement Programme Results, Reception Year Obesity Recorded Prevalence Trend, 2014/15-2018/19, Cambridgeshire Districts, Cambridgeshire, Peterborough & England

Area	2014/15	2015/16	2016/17	2017/18	2018/19
Cambridge	6.1%	6.0%	6.3%	6.6%	5.2%
East Cambridgeshire	6.9%	6.8%	6.5%	6.6%	6.3%
Fenland	9.9%	8.7%	9.0%	6.5%	10.4%
Huntingdonshire	8.1%	7.3%	7.7%	6.5%	6.8%
South Cambridgeshire	6.3%	5.9%	7.1%	6.4%	5.3%
Cambridgeshire	7.4%	6.9%	7.4%	6.5%	6.6%
Peterborough	9.8%	9.3%	8.9%	8.7%	9.9%
England	9.1%	9.3%	9.6%	9.5%	9.7%

Local authority areas are assigned based on the postcode of the child (Table 3B in national dataset).
Source: National Child Measurement Programme, NHS Digital

Key
Statistcially significantly better than England
Statistically similar to England
Statistically significantly worse than England

Obesity prevalence in Reception pupils has been statistically significantly lower in Cambridgeshire when compared to England from 2014/15 – 2018/19. It has also been consistently statistically significantly lower than England within many Cambridgeshire districts. In 2018/19 all of the Cambridgeshire districts are statistically significantly lower than England for this indicator except Fenland, which is statistically similar.

Prevalence of obesity in Reception age pupils in Peterborough continues to be statistically similar to England since 2014/15.

Table 5: National Child Measurement Programme Results, Year 6 Obesity Recorded Prevalence Trend, 2014/15-2018/19 Cambridgeshire Districts, Cambridgeshire, Peterborough & England

Area	2014/15	2015/16	2016/17	2017/18	2018/19
Cambridge	14.6%	11.3%	15.7%	15.4%	13.3%
East Cambridgeshire	14.4%	15.3%	11.3%	14.6%	15.0%
Fenland	18.8%	20.0%	20.4%	20.9%	20.6%
Huntingdonshire	15.5%	15.8%	15.7%	15.1%	14.7%
South Cambridgeshire	12.6%	12.6%	10.9%	11.8%	11.2%
Cambridgeshire	15.0%	14.9%	14.6%	15.1%	14.5%
Peterborough	17.9%	19.8%	22.6%	20.7%	22.7%
England	19.1%	19.8%	20.0%	20.1%	20.2%

Local authority areas are assigned based on the postcode of the child (Table 3B in national dataset).
Source: National Child Measurement Programme, NHS Digital

Key
Statistcially significantly better than England
Statistically similar to England
Statistically significantly worse than England

Cambridgeshire, and all its districts except Fenland, have had statistically significantly low Year 6 obesity prevalence in comparison to England since 2014/15. Fenland has been statistically similar to the England rate since 2014/15.

Peterborough has changed from statistically similar in 2017/18 to statistically significantly worse than England in 2018/19. Prevalence has increased by 2.0 percentage points during this time (from 20.7% to 22.7%).

4. Local National Child Measurement Programme Analysis, 2016/17 - 2018/19

In this section NCMP data for Cambridgeshire and Peterborough are combined, as well as shown individually. Generally, Cambridgeshire data and Peterborough data are compared with the Cambridgeshire and Peterborough average and data for the districts in Cambridgeshire are compared with the Cambridgeshire average. Where Peterborough data are broken down within Peterborough they are compared with the Peterborough average.

Data are aggregated (pooled) across NCMP years in order to increase the statistical validity of the findings and to smooth out annual fluctuations.

4.1 Analysis by geographical area

Table 6: National Child Measurement Programme Results, Reception Year, 2016/17 – 2018/19 Pooled, Cambridgeshire Districts, Cambridgeshire, Peterborough, and Cambridgeshire and Peterborough combined

Area	Underweight			Healthy Weight			Overweight			Obesity (inc. severe obese)			Severe Obesity		
	%	95% CI		%	95% CI		%	95% CI		%	95% CI		%	95% CI	
		Lower	Upper		Lower	Upper		Lower	Upper		Lower	Upper		Lower	Upper
Cambridge	1.2%	0.8%	1.6%	83.3%	81.9%	84.5%	9.5%	8.5%	10.6%	6.1%	5.3%	6.9%	1.4%	1.1%	1.9%
East Cambridgeshire	0.9%	0.6%	1.3%	83.1%	81.7%	84.5%	9.6%	8.5%	10.7%	6.4%	5.5%	7.4%	1.3%	0.9%	1.8%
Fenland	0.8%	0.6%	1.2%	78.3%	76.8%	79.7%	12.5%	11.4%	13.7%	8.4%	7.5%	9.5%	2.1%	1.6%	2.6%
Huntingdonshire	0.7%	0.5%	0.9%	80.4%	79.4%	81.5%	11.9%	11.1%	12.8%	7.0%	6.3%	7.7%	1.6%	1.3%	2.0%
South Cambridgeshire	0.7%	0.5%	1.0%	82.1%	81.0%	83.1%	11.0%	10.1%	11.8%	6.3%	5.6%	7.0%	1.0%	0.8%	1.4%
Cambridgeshire	0.8%	0.7%	0.9%	81.4%	80.8%	81.9%	11.0%	10.6%	11.5%	6.8%	6.5%	7.2%	1.5%	1.3%	1.6%
Peterborough	1.6%	1.4%	1.9%	76.6%	75.6%	77.5%	12.6%	11.9%	13.3%	9.2%	8.6%	9.8%	2.5%	2.2%	2.9%
Cambridgeshire & Peterborough	**1.0%**	**0.9%**	**1.2%**	**80.0%**	**79.5%**	**80.4%**	**11.5%**	**11.1%**	**11.9%**	**7.5%**	**7.2%**	**7.8%**	**1.8%**	**1.6%**	**1.9%**

Source: National Child Measurement Programme, NHS Digital

Key
Statistically significantly better than Cambridgeshire/Cambridgeshire & Peterborough average
Statistically similar to Cambridgeshire/Cambridgeshire & Peterborough average
Statistically significantly worse than Cambridgeshire/Cambridgeshire & Peterborough average

80.0% of Reception-age pupils in Cambridgeshire and Peterborough have a healthy weight for the 2016/17 – 2018/19 three-year pooled period. Cambridgeshire has a statistically significant high percentage of healthy weight and statistically significantly low percentage of obese pupils compared to Cambridgeshire and Peterborough average.

Fenland has a statistically significant low percentage of healthy weight pupils and statistically significantly high percentage of obese pupils compared to Cambridgeshire.

Cambridge has a statistically significantly high percentage of healthy weight pupils and statistically significantly low percentage of overweight pupils compared to Cambridgeshire.

Peterborough has a statistically significantly high percentage of underweight pupils, overweight and obese/severely obese pupils in comparison to the Cambridgeshire and Peterborough average. Peterborough also has a statistically significant low percentage of pupils with healthy weight compared to the Cambridgeshire and Peterborough average.

Table 7: National Child Measurement Programme Results, Year 6, 2016/17 – 2018/19 Pooled, Cambridgeshire Districts, Cambridgeshire, Peterborough, and Cambridgeshire and Peterborough combined

Area	Underweight			Healthy Weight			Overweight			Obesity (inc. severe obese)			Severe Obesity		
	%	95% CI		%	95% CI		%	95% CI		%	95% CI		%	95% CI	
		Lower	Upper		Lower	Upper		Lower	Upper		Lower	Upper		Lower	Upper
Cambridge	2.0%	1.5%	2.5%	70.7%	68.9%	72.4%	12.6%	11.4%	14.0%	14.7%	13.4%	16.2%	2.7%	2.1%	3.3%
East Cambridgeshire	1.5%	1.1%	2.1%	72.4%	70.6%	74.1%	12.2%	11.0%	13.6%	13.8%	12.5%	15.3%	2.1%	1.6%	2.8%
Fenland	1.6%	1.2%	2.1%	63.7%	61.9%	65.5%	14.0%	12.8%	15.3%	20.7%	19.1%	22.4%	4.6%	3.9%	5.4%
Huntingdonshire	1.4%	1.1%	1.7%	70.1%	68.8%	71.4%	13.3%	12.4%	14.3%	15.2%	14.1%	16.3%	2.5%	2.1%	2.9%
South Cambridgeshire	1.6%	1.2%	1.9%	75.3%	74.0%	76.5%	11.8%	10.9%	12.7%	11.4%	10.5%	12.3%	1.4%	1.1%	1.8%
Cambridgeshire	1.6%	1.4%	1.8%	70.9%	70.2%	71.6%	12.8%	12.3%	13.3%	14.7%	14.2%	15.3%	2.5%	2.3%	2.7%
Peterborough	2.2%	1.9%	2.6%	62.2%	61.1%	63.3%	13.5%	12.7%	14.3%	22.1%	21.1%	23.2%	4.8%	4.4%	5.3%
Cambridgeshire & Peterborough	**1.8%**	**1.6%**	**1.9%**	**68.3%**	**67.7%**	**68.9%**	**13.0%**	**12.6%**	**13.4%**	**17.0%**	**16.5%**	**17.5%**	**3.2%**	**3.0%**	**3.4%**

Source: National Child Measurement Programme, NHS Digital

Key
Statistically significantly better than Cambridgeshire/Cambridgeshire & Peterborough average
Statistically similar to Cambridgeshire/Cambridgeshire & Peterborough average
Statistically significantly worse than Cambridgeshire/Cambridgeshire & Peterborough average

Cambridgeshire and Peterborough follow nationally observed trends in that fewer pupils in Year 6 have a healthy weight compared to Reception year and conversely, percentages of pupils who are overweight or obese are higher within the Year 6 age group.

In South Cambridgeshire, the percentage of pupils with a healthy weight is statistically significantly higher than the Cambridgeshire average and the percentage of obese and severely obese pupils are statistically significantly lower than the Cambridgeshire average.

In Fenland, the percentage of pupils with a healthy weight is statistically significant low compared to the Cambridgeshire average and percentages of pupils obese and severely obese are statistically significantly high.

Cambridgeshire has a statistically significantly higher percentage of pupils with a healthy weight and statistically significantly lower percentages of pupils with obesity/severe obesity than the Cambridgeshire and Peterborough average, whereas Peterborough has statistically significantly worse percentages than the Cambridgeshire and Peterborough combined average for these three indicators.

4.2 Analysis by Sex

Table 8: National Child Measurement Programme Results by Sex, Reception & Year 6 Age Obesity (Including Severe Obesity) Recorded Prevalence, 2016/17 – 2018/19 Pooled, Cambridgeshire Districts, Cambridgeshire, Peterborough, and Cambridgeshire and Peterborough combined

Area	Reception								Year 6							
	Female				Male				Female				Male			
	N	%	95% CI		N	%	95% CI		N	%	95% CI		N	%	95% CI	
			Lower	Upper			Lower	Upper			Lower	Upper			Lower	Upper
Cambridge	86	2.7%	2.2%	3.3%	108	3.4%	2.8%	4.1%	150	5.6%	4.8%	6.6%	243	9.1%	8.1%	10.3%
East Cambridgeshire	81	2.9%	2.4%	3.6%	96	3.5%	2.9%	4.2%	159	6.3%	5.4%	7.3%	191	7.5%	6.6%	8.6%
Fenland	129	4.1%	3.5%	4.8%	137	4.3%	3.7%	5.1%	239	8.5%	7.5%	9.6%	341	12.2%	11.0%	13.4%
Huntingdonshire	191	3.4%	2.9%	3.9%	204	3.6%	3.2%	4.1%	334	6.7%	6.0%	7.4%	422	8.5%	7.7%	9.3%
South Cambridgeshire	140	2.7%	2.3%	3.2%	183	3.5%	3.1%	4.1%	222	4.5%	4.0%	5.2%	333	6.8%	6.1%	7.6%
Cambridgeshire	627	3.1%	2.9%	3.4%	728	3.7%	3.4%	3.9%	1,104	6.2%	5.8%	6.5%	1,530	8.6%	8.2%	9.0%
Peterborough	371	9.9%	9.0%	10.9%	383	10.2%	9.3%	11.3%	716	18.5%	17.3%	19.8%	967	25.0%	23.7%	26.4%
Cambridgeshire & Peterborough	**998**	**4.2%**	**4.0%**	**4.5%**	**1,111**	**4.7%**	**4.4%**	**5.0%**	**1,820**	**8.4%**	**8.0%**	**8.8%**	**2,497**	**11.5%**	**11.1%**	**11.9%**

Source: National Child Measurement Programme, NHS Digital

Key
Statistically significantly better than Cambridgeshire/Cambridgeshire & Peterborough average
Statistically similar to Cambridgeshire/Cambridgeshire & Peterborough average
Statistically significantly worse than Cambridgeshire/Cambridgeshire & Peterborough average

In comparison to Cambridgeshire, South Cambridgeshire has a statistically significantly low percentages of obesity for both females and males in Year 6. Fenland has statistically significantly higher percentages of obesity for both females and males in Year 6 and a statistically significantly higher percentage of obesity in females in Reception.

Peterborough has statistically significantly higher percentages than the combined Cambridgeshire and Peterborough average for obesity in Reception and Year 6 females and males. In contrast, Cambridgeshire has statistically significantly lower percentages.

Table 9: National Child Measurement Programme Results by Sex, Reception & Year 6 Age Severe Obesity Recorded Prevalence, 2016/17 - 2018/19 Pooled, Cambridgeshire Districts, Cambridgeshire, Peterborough, and Peterborough & Cambridgeshire

Area	Reception								Year 6							
	Female				Male				Female				Male			
	N	%	95% CI		N	%	95% CI		N	%	95% CI		N	%	95% CI	
			Lower	Upper			Lower	Upper			Lower	Upper			Lower	Upper
Cambridge	21	0.7%	0.4%	1.0%	24	0.8%	0.5%	1.1%	24	0.9%	0.6%	1.3%	47	1.8%	1.3%	2.3%
East Cambridgeshire	17	0.6%	0.4%	1.0%	19	0.7%	0.4%	1.1%	20	0.8%	0.5%	1.2%	34	1.3%	1.0%	1.9%
Fenland	34	1.1%	0.8%	1.5%	31	1.0%	0.7%	1.4%	49	1.7%	1.3%	2.3%	79	2.8%	2.3%	3.5%
Huntingdonshire	43	0.8%	0.6%	1.0%	49	0.9%	0.7%	1.1%	54	1.1%	0.8%	1.4%	68	1.4%	1.1%	1.7%
South Cambridgeshire	22	0.4%	0.3%	0.6%	32	0.6%	0.4%	0.9%	25	0.5%	0.3%	0.8%	44	0.9%	0.7%	1.2%
Cambridgeshire	137	0.7%	0.6%	0.8%	155	0.8%	0.7%	0.9%	172	1.0%	0.8%	1.1%	272	1.5%	1.4%	1.7%
Peterborough	82	1.0%	0.8%	1.2%	126	1.5%	1.3%	1.8%	141	1.9%	1.6%	2.2%	226	3.0%	2.6%	3.4%
Cambridgeshire & Peterborough	**219**	**0.8%**	**0.7%**	**0.9%**	**281**	**1.0%**	**0.9%**	**1.1%**	**313**	**1.2%**	**1.1%**	**1.4%**	**498**	**2.0%**	**1.8%**	**2.1%**

Source: National Child Measurement Programme, NHS Digital

Key
Statistically significantly better than Cambridgeshire/Cambridgeshire & Peterborough average
Statistically similar to Cambridgeshire/Cambridgeshire & Peterborough average
Statistically significantly worse than Cambridgeshire/Cambridgeshire & Peterborough average

Compared to Cambridgeshire, Fenland has statistically significantly high percentages of severe obesity in both males and females in Year 6. South Cambridgeshire has statistically significantly lower percentages of severe obesity in both males and females in Year 6.

4.3 Analysis by Ethnicity

Table 10: National Child Measurement Programme Results by Ethnicity, Reception & Year 6 Age Obesity & Severe Obesity Recorded Prevalence, Cambridgeshire and Peterborough Combined

Cambridgeshire 2016/17 - 2018/19 Pooled and Peterborough 2015/16- 2017/18 as ethnicity data for 2018/19 not available for Peterborough

Ethnicity		Cambridgeshire and Peterborough															
		Obese								Severe obesity							
		Reception				Year 6				Reception				Year 6			
		N	%	95% CI		N	%	95% CI		N	%	95% CI		N	%	95% CI	
				Lower	Upper			Lower	Upper			Lower	Upper			Lower	Upper
White	British	1,273	7.1%	6.8%	7.5%	2,491	15.1%	14.5%	15.6%	255	1.4%	1.3%	1.6%	406	2.5%	2.2%	2.7%
	Irish	11	10.4%	5.9%	17.6%	13	15.3%	9.2%	24.4%	-	-	-	-	-	-	-	-
	Any other White background	322	7.4%	6.7%	8.2%	672	18.3%	17.0%	19.5%	88	2.0%	1.6%	2.5%	143	3.9%	3.3%	4.6%
Black	African	51	15.7%	12.1%	20.0%	59	23.8%	18.9%	29.5%	14	4.3%	2.6%	7.1%	18	7.3%	4.6%	11.2%
	Caribbean	-	-	-	-	11	18.3%	10.6%	29.9%	-	-	-	-	-	-	-	-
	Any other Black background	17	9.7%	6.2%	15.0%	38	22.4%	16.7%	29.2%	8	4.6%	2.3%	8.8%	9	5.3%	2.8%	9.8%
Asian	Bangladeshi	17	11.9%	7.6%	18.2%	56	35.9%	28.8%	43.7%	-	-	-	-	11	7.1%	4.0%	12.2%
	Indian	16	3.4%	2.1%	5.4%	74	18.2%	14.7%	22.2%	-	-	-	-	7	1.7%	0.8%	3.5%
	Pakistani	88	9.1%	7.5%	11.1%	231	22.3%	19.8%	24.9%	31	3.2%	2.3%	4.5%	52	5.0%	3.8%	6.5%
	Any other Asian background	56	10.6%	8.3%	13.6%	99	21.5%	18.0%	25.5%	13	2.5%	1.4%	4.2%	26	5.7%	3.9%	8.2%
Mixed	White and Asian	23	4.7%	3.2%	7.0%	40	12.0%	8.9%	15.9%	-	-	-	-	-	-	-	-
	White and Black African	25	10.2%	7.0%	14.6%	36	16.9%	12.5%	22.5%	10	4.1%	2.2%	7.3%	14	6.6%	4.0%	10.7%
	White and Black Caribbean	17	7.3%	4.6%	11.4%	52	22.4%	17.5%	28.2%	-	2.6%	1.2%	5.5%	13	5.6%	3.3%	9.3%
	Any other mixed background	87	8.4%	6.9%	10.3%	81	18.1%	14.8%	21.9%	23	2.2%	1.5%	3.3%	17	3.8%	2.4%	6.0%
Chinese		10	4.3%	2.4%	7.8%	26	16.8%	11.7%	23.4%	-	0.4%	0.1%	2.4%	-	-	-	-
Any other ethnic group		41	8.5%	6.3%	11.3%	61	22.0%	17.5%	27.3%	13	2.7%	1.6%	4.6%	17	6.1%	3.9%	9.6%
Not stated		25	7.2%	4.9%	10.4%	89	21.5%	17.9%	25.8%	-	-	-	-	10	2.4%	1.3%	4.4%
Invalid		-	-	-	-	23	21.7%	14.9%	30.5%	-	-	-	-	-	-	-	-
C&P Total		**2,086**	**7.4%**	**7.1%**	**7.7%**	**4,152**	**16.6%**	**16.1%**	**17.1%**	**480**	**1.7%**	**1.6%**	**1.9%**	**766**	**3.1%**	**2.9%**	**3.3%**

Note: '-' represents values supressed due to low numbers. Small numbers must be observed with caution as they can be subject to annual fluctuation.

Source: National Child Measurement Programme, NHS Digital

Key
Statistically significantly better than Cambridgeshire & Peterborough average
Statistically similar to Cambridgeshire & Peterborough average
Statistically significantly worse than Cambridgeshire & Peterborough average

In comparison to the Cambridgeshire and Peterborough average, the percentage of obese pupils in Reception is statistically significantly low for 'Asian: Indian' pupils. 'Mixed: White and Asian' has statistically significantly lower percentages of obese pupils in both Reception and Year 6. The percentages of 'White: British' pupils who are obese and severely obese are statistically significantly lower for Year 6.

'Black: African' pupils has statistically significantly higher percentages of obesity/severe obesity in both Reception and Year 6 than the Cambridgeshire and Peterborough average.

The percentages of Reception pupils who are severely obese are also statistically significantly higher among 'Black: Any other Black background', 'Asian: Pakistani' and 'Mixed: White and Black background' compared to the Cambridgeshire and Peterborough average.

The percentages are statistically significantly high for obesity/severe obesity in Year 6 pupils among several minority ethnicities compared to the Cambridgeshire and Peterborough average.

Table 11: National Child Measurement Programme Results by Ethnicity, Reception & Year 6 Age Obesity & Severe Obesity Recorded Prevalence, 2016/17 – 2018/19 Pooled, Cambridgeshire

Ethnicity		Cambridgeshire															
		Obese								Severe obesity							
		Reception				Year 6				Reception				Year 6			
		N	%	95% CI		N	%	95% CI		N	%	95% CI		N	%	95% CI	
				Lower	Upper			Lower	Upper			Lower	Upper			Lower	Upper
White	British	994	6.8%	6.4%	7.2%	1,918	14.1%	13.5%	14.7%	186	1.3%	1.1%	1.5%	300	2.2%	2.0%	2.5%
	Irish	10	13.0%	7.2%	22.3%	9	14.1%	7.6%	24.6%	-	-	-	-	-	-	-	-
	Any other White background	150	6.4%	5.4%	7.4%	280	15.2%	13.6%	16.9%	39	1.7%	1.2%	2.3%	47	2.6%	1.9%	3.4%
Black	African	32	20.4%	14.8%	27.4%	32	24.1%	17.6%	32.0%	14	8.9%	5.4%	14.4%	10	7.5%	4.1%	13.3%
	Caribbean	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Any other Black background	7	14.3%	7.1%	26.7%	13	27.7%	16.9%	41.8%	-	10.2%	4.4%	21.8%	-	-	-	-
Asian	Bangladeshi	15	11.9%	7.3%	18.7%	48	35.0%	27.6%	43.3%	-	-	-	-	10	7.3%	4.0%	12.9%
	Indian	8	3.1%	1.6%	6.1%	40	17.4%	13.0%	22.8%	-	-	-	-	-	-	-	-
	Pakistani	9	8.0%	4.2%	14.4%	14	11.3%	6.8%	18.1%	-	-	-	-	-	-	-	-
	Any other Asian background	24	8.5%	5.7%	12.3%	56	20.1%	15.9%	25.3%	-	-	-	-	16	5.8%	3.6%	9.1%
Mixed	White and Asian	15	3.8%	2.3%	6.2%	29	10.5%	7.4%	14.7%	-	0.8%	0.3%	2.2%	-	-	-	-
	White and Black African	20	10.7%	7.0%	15.9%	22	16.4%	11.1%	23.6%	10	5.3%	2.9%	9.6%	10	7.5%	4.1%	13.2%
	White and Black Caribbean	10	6.1%	3.4%	10.9%	42	23.1%	17.6%	29.7%	-	-	-	-	11	6.0%	3.4%	10.5%
	Any other mixed background	31	7.5%	5.4%	10.5%	51	14.5%	11.2%	18.5%	8	1.9%	1.0%	3.8%	12	3.4%	2.0%	5.9%
Chinese		-	-	-	-	22	15.9%	10.8%	23.0%	-	-	-	-	-	-	-	-
Any other ethnic group		-	-	-	-	29	20.6%	14.7%	28.0%	-	-	-	-	7	5.0%	2.4%	9.9%
Not stated		16	6.3%	3.9%	10.0%	18	15.9%	10.3%	23.8%	-	-	-	-	-	-	-	-
Invalid		-	-	-	-		-	-	-	-	-	-	-	-	-	-	-
Cambridgeshire Total		**1,355**	**6.8%**	**6.5%**	**7.2%**	**2,634**	**14.7%**	**14.2%**	**15.3%**	**292**	**1.5%**	**1.3%**	**1.6%**	**444**	**2.5%**	**2.3%**	**2.7%**

Note: '-' represents values supressed due to low numbers. Small numbers must be observed with caution as they can be subject to annual fluctuation.

Source: National Child Measurement Programme, NHS Digital

Key
Statistically significantly better than Cambridgeshire average
Statistically similar to Cambridgeshire average
Statistically significantly worse than Cambridgeshire average

In Cambridgeshire, the percentage of obese Reception year pupils of 'Mixed: White and Asian' and 'Asian: Indian' ethnicities are statistically significantly low. 'White: Irish', 'Black: African' and 'Asian: Bangladeshi' ethnicities have statistically significantly high obesity prevalence in Reception pupils, compared to the Cambridgeshire average.

Among 'Black: African', 'Black: Any other Black background' and 'Mixed: White and Black African' ethnicities severe obesity prevalence is also statistically significantly high for Reception pupils compared to the Cambridgeshire average.

'Black: African' and 'Asian: Any other Asian background' and 'Mixed: White and Black Caribbean' ethnic groups have statistically significantly higher prevalence of both obesity and severe obesity in year 6 pupils than the Cambridgeshire average.

Table 12: National Child Measurement Programme Results by Ethnicity, Reception & Year 6 Age Obesity & Severe Obesity Recorded Prevalence, 2015/16 – 2017/18 Pooled, Peterborough

Ethnicity		Peterborough															
		Obese								Severe obesity							
		Reception				Year 6				Reception				Year 6			
		N	%	95% CI		N	%	95% CI		N	%	95% CI		N	%	95% CI	
				Lower	Upper			Lower	Upper			Lower	Upper			Lower	Upper
White	British	279	8.9%	7.9%	9.9%	573	19.6%	18.2%	21.1%	69	2.2%	1.7%	2.8%	106	3.6%	3.0%	4.4%
	Irish	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Any other White background	172	8.6%	7.5%	9.9%	392	21.3%	19.5%	23.2%	49	2.5%	1.9%	3.2%	96	5.2%	4.3%	6.3%
Black	African	19	11.3%	7.4%	17.0%	27	23.5%	16.7%	32.0%	-	-	-	-	8	7.0%	3.6%	13.1%
	Caribbean	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Any other Black background	10	7.9%	4.4%	14.0%	25	20.3%	14.2%	28.3%	-	2.4%	0.8%	6.8%	7	5.7%	2.8%	11.3%
Asian	Bangladeshi	-	-	-	-	8	42.1%	23.1%	63.7%	-	-	-	-	-	-	-	-
	Indian	8	3.6%	1.8%	6.9%	34	19.2%	14.1%	25.6%	-	0.5%	0.1%	2.5%	-	-	-	-
	Pakistani	79	9.3%	7.5%	11.4%	217	23.7%	21.1%	26.6%	28	3.3%	2.3%	4.7%	51	5.6%	4.3%	7.3%
	Any other Asian background	32	13.2%	9.5%	18.1%	43	23.6%	18.0%	30.3%	8	3.3%	1.7%	6.4%	10	5.5%	3.0%	9.8%
Mixed	White and Asian	8	8.5%	4.4%	15.9%	11	19.3%	11.1%	31.3%	-	3.2%	1.1%	9.0%	-	-	-	-
	White and Black African	-	-	-	-	14	17.7%	10.9%	27.6%	-	-	-	-	-	-	-	-
	White and Black Caribbean	7	10.1%	5.0%	19.5%	10	20.0%	11.2%	33.0%	-	1.4%	0.3%	7.8%	-	4.0%	1.1%	13.5%
	Any other mixed background	56	9.0%	7.0%	11.6%	30	31.3%	22.9%	41.1%	-	-	-	-	-	-	-	-
Chinese		-	-	-	-	-	-	-	-	10	3.3%	1.8%	5.9%	10	7.4%	4.0%	13.0%
Any other ethnic group		35	11.5%	8.4%	15.5%	32	23.5%	17.2%	31.3%	15	2.4%	1.5%	4.0%	-	5.2%	2.2%	11.6%
Not stated		9	9.5%	5.1%	17.0%	71	23.7%	19.2%	28.8%	-	1.1%	0.2%	5.7%	7	2.3%	1.1%	4.7%
Invalid		-	-	-	-	17	20.0%	12.9%	29.7%	-	-	-	-	-	-	-	-
Peterborough Total		**731**	**9.0%**	**8.4%**	**9.6%**	**1,518**	**21.2%**	**20.3%**	**22.2%**	**188**	**2.3%**	**2.0%**	**2.7%**	**322**	**4.5%**	**4.0%**	**5.0%**

Note: '-' represents values supressed due to low numbers. Small numbers must be observed with caution as they can be subject to annual fluctuation.
Source: National Child Measurement Programme, NHS Digital

Key
Statistically significantly better than Peterborough average
Statistically similar to Peterborough average
Statistically significantly worse than Peterborough average

In Peterborough, obesity prevalence in Reception pupils is statistically significantly low in 'Asian: Indian' pupils compared to the Peterborough average. Obesity is statistically significantly high among 'Asian: Bangladeshi' and 'Mixed: Any other mixed background' ethnicities in Year 6.

4.4 Analysis by Deprivation Quintile

Table 13: National Child Measurement Programme Results by Deprivation Quintile[5], Reception & Year 6 Age Obesity & Severe Obesity Recorded Prevalence, 2016/17 – 2018/19 Pooled, Cambridgeshire & Peterborough Combined

Deprivation Quintile	Cambridgeshire and Peterborough															
	Obese								Severe obesity							
	Reception				Year 6				Reception				Year 6			
	N	%	95% CI		N	%	95% CI		N	%	95% CI		N	%	95% CI	
			Lower	Upper			Lower	Upper			Lower	Upper			Lower	Upper
Quintile 1 (most deprived)	451	10.2%	9.4%	11.2%	1036	25.0%	23.7%	26.3%	134	3.0%	2.6%	3.6%	246	5.9%	5.3%	6.7%
Quintile 2	385	8.9%	8.1%	9.8%	827	21.9%	20.6%	23.3%	104	2.4%	2.0%	2.9%	192	5.1%	4.4%	5.8%
Quintile 3	508	7.9%	7.2%	8.6%	961	17.3%	16.3%	18.3%	106	1.6%	1.4%	2.0%	172	3.1%	2.7%	3.6%
Quintile 4	402	6.6%	6.0%	7.3%	752	14.0%	13.1%	14.9%	83	1.4%	1.1%	1.7%	106	2.0%	1.6%	2.4%
Quintile 5 (least deprived)	363	5.3%	4.8%	5.9%	741	11.2%	10.5%	12.0%	79	1.2%	0.9%	1.4%	95	1.4%	1.2%	1.8%
Cambridgeshire and Peterborough	**2,109**	**7.5%**	**7.2%**	**7.8%**	**4,317**	**17.0%**	**16.5%**	**17.4%**	**500**	**1.8%**	**1.6%**	**1.9%**	**811**	**3.2%**	**3.0%**	**3.4%**

Source: National Child Measurement Programme, NHS Digital

Key
Statistically significantly better than Cambridgeshire & Peterborough average
Statistically similar to Cambridgeshire & Peterborough average
Statistically significantly worse than Cambridgeshire & Peterborough average

The table above shows prevalence of obesity and severe obesity for both Reception and Year 6 pupils in Cambridgeshire and Peterborough. There is a clear correlation between relative deprivation and the prevalence of obesity and severe obesity.

The most deprived quintile has a statistically significantly high prevalence for all four of indicators shown in comparison to the Cambridgeshire and Peterborough average, whereas prevalence is statistically significantly low in the least deprived quintile for all indicators.

[5] Quintile – the population is divided into five equal groups according to level of deprivation. Quintile 1 is most deprived, quintile 5 is least deprived. Deprivation is assessed using the Indices of Multiple Deprivation (IMD 2019).

Table 14: National Child Measurement Programme Results by Deprivation Quintile[6], Reception & Year 6 Age Obesity & Severe Obesity Recorded Prevalence, 2016/17 – 2018/19 Pooled, Cambridgeshire

Deprivation Quintile	Cambridgeshire															
	Obese								Severe obesity							
	Reception				Year 6				Reception				Year 6			
	N	%	95% CI		N	%	95% CI		N	%	95% CI		N	%	95% CI	
			Lower	Upper			Lower	Upper			Lower	Upper			Lower	Upper
Quintile 1 (most deprived)	109	10.9%	9.2%	13.0%	195	22.5%	19.9%	25.4%	35	3.5%	2.5%	4.8%	41	4.7%	3.5%	6.4%
Quintile 2	198	8.5%	7.5%	9.7%	440	21.9%	20.1%	23.7%	49	2.1%	1.6%	2.8%	108	5.4%	4.5%	6.4%
Quintile 3	371	7.4%	6.7%	8.2%	698	16.4%	15.3%	17.5%	67	1.3%	1.1%	1.7%	120	2.8%	2.4%	3.4%
Quintile 4	341	6.6%	6.0%	7.3%	598	13.3%	12.4%	14.3%	71	1.4%	1.1%	1.7%	85	1.9%	1.5%	2.3%
Quintile 5 (least deprived)	336	5.2%	4.7%	5.8%	703	11.3%	10.5%	12.1%	70	1.1%	0.9%	1.4%	90	1.4%	1.2%	1.8%
Cambridgeshire	**1,355**	**6.8%**	**6.5%**	**7.2%**	**2,634**	**14.7%**	**14.2%**	**15.3%**	**292**	**1.5%**	**1.3%**	**1.6%**	**444**	**2.5%**	**2.3%**	**2.7%**

Source: National Child Measurement Programme, NHS Digital

Key
Statistically significantly better than Cambridgeshire average
Statistically similar to Cambridgeshire average
Statistically significantly worse than Cambridgeshire average

The percentages of pupils who are obese or severely obese are statistically significantly high in the most deprived quintiles of Cambridgeshire for both Reception and Year 6 pupils. Whereas, percentages are statistically significantly low in the least deprived quintile for obesity among Reception and Year 6 pupils and severe obesity in Year 6 pupils.

Table 15: National Child Measurement Programme Results by Deprivation Quintile[7], Reception & Year 6 Age Obesity & Severe Obesity Recorded Prevalence, 2016/17 – 2018/19 Pooled, Peterborough

Deprivation Quintile	Peterborough															
	Obese								Severe obesity							
	Reception				Year 6				Reception				Year 6			
	N	%	95% CI		N	%	95% CI		N	%	95% CI		N	%	95% CI	
			Lower	Upper			Lower	Upper			Lower	Upper			Lower	Upper
Quintile 1 (most deprived)	342	10.0%	9.1%	11.1%	841	25.6%	24.2%	27.2%	99	2.9%	2.4%	3.5%	205	6.3%	5.5%	7.1%
Quintile 2	187	9.3%	8.1%	10.6%	387	22.0%	20.1%	23.9%	55	2.7%	2.1%	3.5%	84	4.8%	3.9%	5.9%
Quintile 3	137	9.4%	8.0%	11.1%	263	20.4%	18.2%	22.6%	39	2.7%	2.0%	3.7%	52	4.0%	3.1%	5.2%
Quintile 4	61	6.6%	5.1%	8.3%	154	17.1%	14.8%	19.7%	12	1.3%	0.7%	2.2%	21	2.3%	1.5%	3.5%
Quintile 5 (least deprived)	27	6.9%	4.8%	9.8%	38	10.3%	7.6%	13.9%	9	2.3%	1.2%	4.3%	5	1.4%	0.6%	3.1%
Peterborough	**754**	**9.2%**	**8.6%**	**9.8%**	**1,683**	**22.1%**	**21.2%**	**23.1%**	**208**	**2.5%**	**2.2%**	**2.9%**	**367**	**4.8%**	**4.4%**	**5.3%**

Note: '-' represents values supressed due to low numbers. Small numbers must be observed with caution as they can be subject to annual fluctuation.

Source: National Child Measurement Programme, NHS Digital

Key
Statistically significantly better than Peterborough average
Statistically similar to Peterborough average
Statistically significantly worse than Peterborough average

The percentages of obese and severely obese Year 6 pupils is statistically significantly high in the most deprived quintile. It is statistically significantly low compared to the Peterborough average in the two least deprived quintiles.

[6] As above

[7] Quintile – the population is divided into five equal groups according to level of deprivation. Quintile 1 is most deprived, quintile 5 is least deprived. Deprivation is assessed using the Indices of Multiple Deprivation (IMD 2019).

4.5 Electoral Ward Analysis

Table 16: National Child Measurement Programme Results, Electoral Wards with One or More Statistically Significant NCMP Prevalence Indicator, 2016/17 – 2018/19 Pooled, Cambridgeshire & Peterborough, Ranked Alphabetically by Area and Electoral Ward

Electoral Ward	Area	Obese (%)		Severe Obesity (%)	
		Reception	Year 6	Reception	Year 6
Cambridge	Abbey	12.1%	12.2%	3.1%	3.8%
Cambridge	Coleridge	3.3%	13.9%	0.4%	3.2%
Cambridge	King's Hedges	8.2%	22.6%	2.5%	4.9%
Cambridge	Petersfield	7.0%	10.4%	0.7%	0.7%
Cambridge	West Chesterton	2.2%	5.3%	0.0%	0.6%
East Cambridgeshire	Bottisham	5.6%	9.6%	2.1%	1.7%
East Cambridgeshire	Downham Villages	3.0%	17.3%	0.8%	0.0%
East Cambridgeshire	Ely South	7.7%	9.7%	1.0%	0.0%
East Cambridgeshire	Haddenham	7.6%	9.3%	1.2%	0.0%
East Cambridgeshire	Isleham	6.5%	6.3%	0.0%	0.0%
East Cambridgeshire	Soham South	5.8%	10.0%	0.8%	1.4%
Fenland	Clarkson	11.0%	25.4%	5.5%	7.5%
Fenland	Elm & Christchurch	7.1%	26.3%	0.7%	8.0%
Fenland	Kirkgate	10.6%	29.8%	3.0%	12.8%
Fenland	Lattersey	0.0%	11.4%	0.0%	2.9%
Fenland	Manea	1.2%	15.0%	0.0%	3.8%
Fenland	March East	10.6%	23.9%	3.1%	4.5%
Fenland	Medworth	13.0%	24.0%	5.8%	4.0%
Fenland	Octavia Hill	11.9%	27.3%	4.2%	5.8%
Fenland	Roman Bank	8.9%	23.9%	1.6%	3.9%
Fenland	Slade Lode	6.4%	24.5%	2.4%	7.1%
Fenland	The Mills	3.3%	21.0%	1.1%	11.3%
Fenland	Waterlees Village	12.2%	25.9%	3.9%	8.2%
Huntingdonshire	Buckden	8.8%	4.9%	0.0%	0.0%
Huntingdonshire	Fenstanton	8.5%	9.5%	3.0%	2.0%
Huntingdonshire	Godmanchester & Hemingford Abbots	8.7%	11.7%	2.7%	1.1%
Huntingdonshire	Hemingford Grey & Houghton	6.2%	10.7%	0.4%	1.7%
Huntingdonshire	Holywell-cum-Needingworth	2.6%	10.9%	1.1%	1.8%
Huntingdonshire	Huntingdon North	11.8%	22.8%	3.1%	5.1%
Huntingdonshire	St Ives South	3.2%	12.6%	0.5%	1.3%
Huntingdonshire	St Ives West	1.8%	13.3%	0.0%	1.1%
Huntingdonshire	St Neots Priory Park & Little Paxton	4.9%	11.7%	0.6%	1.3%
South Cambridgeshire	Barrington	4.3%	9.1%	0.0%	1.0%
South Cambridgeshire	Caldecote	6.1%	9.0%	1.4%	0.5%
South Cambridgeshire	Caxton & Papworth	5.7%	10.6%	1.4%	2.3%
South Cambridgeshire	Cottenham	8.3%	9.9%	1.5%	0.5%
South Cambridgeshire	Duxford	5.5%	7.1%	1.8%	0.9%
South Cambridgeshire	Foxton	4.5%	7.6%	0.9%	0.0%
South Cambridgeshire	Hardwick	3.7%	6.0%	0.0%	0.0%
South Cambridgeshire	Harston & Comberton	6.0%	8.0%	1.1%	0.3%
South Cambridgeshire	Histon & Impington	5.2%	8.9%	0.5%	1.8%
South Cambridgeshire	Linton	7.8%	11.4%	2.8%	1.4%
South Cambridgeshire	Longstanton	3.6%	11.5%	0.0%	0.0%
South Cambridgeshire	Over & Willingham	6.3%	9.8%	1.3%	0.8%
Peterborough	Bretton	8.9%	24.5%	2.7%	7.2%
Peterborough	Central	12.8%	28.0%	4.1%	6.0%
Peterborough	Dogsthorpe	7.5%	22.9%	1.6%	5.3%
Peterborough	East	9.1%	24.5%	1.8%	4.7%
Peterborough	Fletton and Stanground	7.2%	22.3%	1.1%	5.2%
Peterborough	Hampton Vale	10.5%	20.0%	2.9%	5.0%
Peterborough	Hargate and Hempsted	10.9%	18.9%	1.4%	2.7%
Peterborough	North	11.6%	29.6%	4.1%	9.4%
Peterborough	Orton Longueville	9.8%	23.3%	3.3%	4.3%
Peterborough	Park	9.8%	25.1%	2.7%	4.8%
Peterborough	Paston and Walton	9.7%	22.5%	2.9%	5.3%
Peterborough	Ravensthorpe	8.5%	20.4%	3.2%	6.7%
Peterborough	Stanground South	10.1%	19.9%	3.6%	4.5%
Cambridge & Peterborough Total		**7.5%**	**16.7%**	**2.2%**	**2.5%**

Source: National Child Measurement Programme, NHS Digital

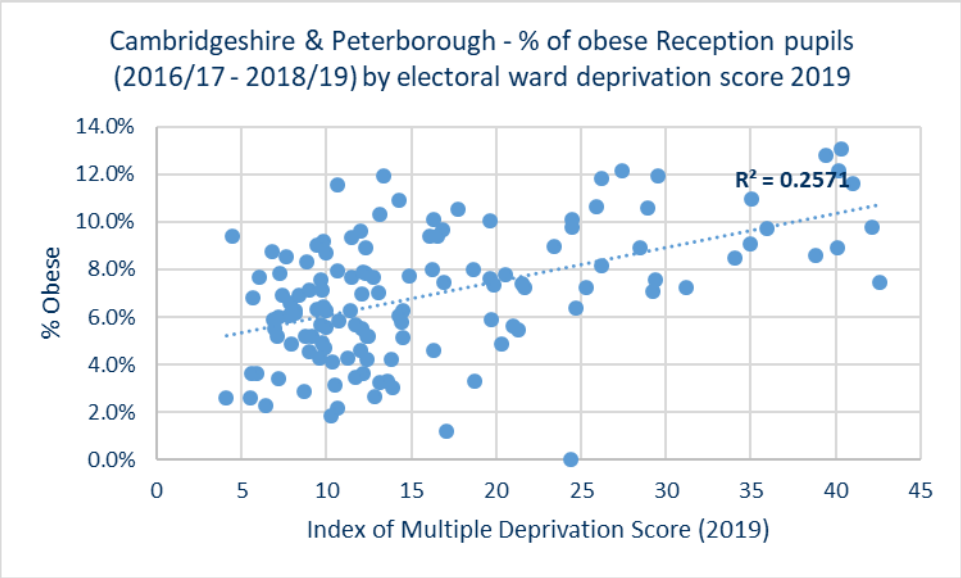
Key
Statistically significantly better than Cambridgeshire/Cambridgeshire & Peterborough average
Statistically similar to Cambridgeshire/Cambridgeshire & Peterborough average
Statistically significantly worse than Cambridgeshire/Cambridgeshire & Peterborough average

The table above displays electoral wards in Cambridgeshire and Peterborough with at least one statistically significant value for obesity/severe obesity in either Reception or Year 6 pupils in comparison to the Cambridgeshire and Peterborough average for the pooled period 2016/17 – 2018/19. Rows are displayed alphabetically by area and then electoral ward.

Electoral wards with statistically significantly high prevalence of obesity/severe obesity tend to be in Peterborough and Fenland, whereas electoral wards with statistically significantly low prevalence are mainly in South Cambridgeshire, East Cambridgeshire, Huntingdonshire and Cambridge.

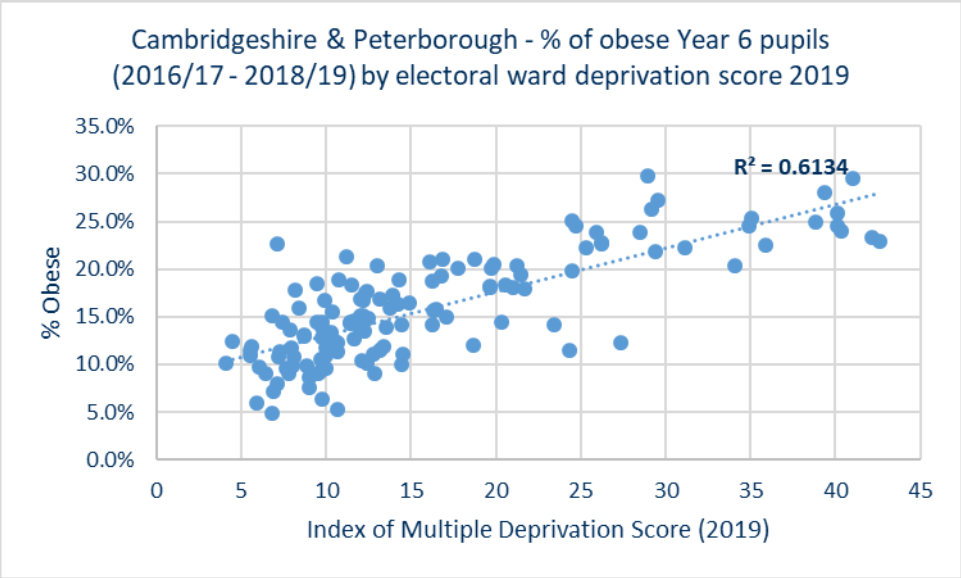
Figures 1 & 2: National Child Measurement Programme Results, Obesity Prevalence & Electoral Ward Deprivation Correlation, 2016/17 - 2018/19 Pooled, Cambridgeshire & Peterborough

The two figures below plot the recorded prevalence of obesity in Reception and Year 6 against the Index of Multiple Deprivation 2019 (IMD 2019) score for the ward representing the home residence of pupils participating in the NCMP. Greater levels of correlation between these two variables is observed in Year 6 pupils ($R^2 = 0.6$) in comparison to pupils in Reception ($R^2 = 0.2$)[8], indicating that for Year 6 pupils obesity is more strongly associated with levels of relative deprivation.



Source: National Child Measurement Programme, NHS Digital (2016/17 - 2018/19), Information Centre and Index of Multiple Deprivation 2019, Communities and Local Government

[8] **R^2 is a statistical measure of how close the data are to the fitted regression line**



Source: National Child Measurement Programme, NHS Digital (2016/17 - 2018/19), Information Centre and Index of Multiple Deprivation 2019, Communities and Local Government

4.6 ONS Area Classification Analysis

The cleaned NCMP dataset from NHS Digital includes ONS Area Classifications (OAC). OAC is a system of population stratification that categorises local areas based on a range of socio-demographic characteristics including deprivation, ethnicity and urban/rural environment. Categories are named in a way that describes the type of population predominant in the assigned areas. 'Supergroups' are comprised of two or more ONS groups that the ONS consider to have appropriately similar characteristics to be able to be amalgamated in to a single classification group.

Table 17: Recorded Prevalence of Obesity by ONS Area Classification Supergroup, Cambridgeshire & Peterborough, 2016/17 – 2018/19 Pooled

ONS Classification	Cambridgeshire and Peterborough															
	Obese								Severe obesity							
	Reception				Year 6				Reception				Year 6			
	N	%	95% CI		N	%	95% CI		N	%	95% CI		N	%	95% CI	
			Lower	Upper			Lower	Upper			Lower	Upper			Lower	Upper
Countryside	489	6.5%	6.0%	7.1%	987	13.9%	13.1%	14.7%	98	1.3%	1.1%	1.6%	145	2.0%	1.7%	2.4%
Disadvantaged Urban Communities	225	9.8%	8.7%	11.1%	497	24.4%	22.6%	26.4%	62	2.7%	2.1%	3.4%	113	5.6%	4.6%	6.6%
Miscellaneous built up areas	460	8.2%	7.5%	8.9%	974	20.0%	18.9%	21.2%	126	2.2%	1.9%	2.7%	209	4.3%	3.8%	4.9%
Multicultural City Life	102	12.3%	10.3%	14.7%	236	26.9%	24.1%	29.9%	32	3.9%	2.8%	5.4%	58	6.6%	5.2%	8.5%
Professional City Life	78	6.2%	5.0%	7.7%	146	13.9%	12.0%	16.2%	11	0.9%	0.5%	1.6%	26	2.5%	1.7%	3.6%
Urban Fringe	287	7.1%	6.4%	8.0%	550	14.4%	13.3%	15.5%	73	1.8%	1.4%	2.3%	87	2.3%	1.9%	2.8%
White Collar Urban	468	7.1%	6.5%	7.8%	927	16.2%	15.3%	17.2%	98	1.5%	1.2%	1.8%	173	3.0%	2.6%	3.5%
C&P Total	**2,109**	**7.5%**	**7.2%**	**7.8%**	**4317**	**17.0%**	**16.5%**	**17.4%**	**500**	**1.8%**	**1.6%**	**1.9%**	**811**	**3.2%**	**3.0%**	**3.4%**

Source: National Child Measurement Programme, NHS Digital

Key
Statistically significantly better than Cambridgeshire & Peterborough average
Statistically similar to Cambridgeshire & Peterborough average
Statistically significantly worse than Cambridgeshire & Peterborough average

Percentages of obesity and severe obesity are statistically significantly lower than the Cambridgeshire and Peterborough average within the 'Countryside' Reception and Year 6 pupils, and 'Urban Fringe' Year 6 pupils. The 'Professional city life' Supergroup has statistically significantly low percentages for severe obesity in Reception pupils and obesity in Year 6 pupils.

Reception age and Year 6 percentages of obesity and severe obesity are statistically significantly higher than average within the 'Disadvantaged urban communities' and 'Multicultural city life' Supergroups. 'Miscellaneous built up areas' also has a prevalence of obesity and severe obesity that is statistically significantly higher than the Cambridgeshire and Peterborough average for Year 6 pupils.

Table 18: Recorded Prevalence of Obesity by ONS Area Classification Supergroup, Cambridgeshire, 2016/17 – 2018/19 Pooled

ONS Classification	Cambridgeshire															
	Obese								Severe obesity							
	Reception				Year 6				Reception				Year 6			
	N	%	95% CI		N	%	95% CI		N	%	95% CI		N	%	95% CI	
			Lower	Upper			Lower	Upper			Lower	Upper			Lower	Upper
Countryside	470	6.5%	6.0%	7.1%	930	13.7%	12.9%	14.6%	94	1.3%	1.1%	1.6%	136	2.0%	1.7%	2.4%
Disadvantaged Urban Communities	98	11.0%	9.1%	13.3%	173	23.5%	20.6%	26.7%	27	3.0%	2.1%	4.4%	38	5.2%	3.8%	7.0%
Miscellaneous built up areas	230	7.6%	6.7%	8.6%	451	17.8%	16.4%	19.4%	59	2.0%	1.5%	2.5%	85	3.4%	2.7%	4.1%
Professional City Life	49	4.7%	3.6%	6.2%	88	10.3%	8.5%	12.5%	-	-	-	-	16	1.9%	1.2%	3.0%
Urban Fringe	110	5.1%	4.3%	6.2%	237	11.2%	10.0%	12.7%	-	-	-	-	28	1.3%	0.9%	1.9%
White Collar Urban	398	7.0%	6.4%	7.7%	755	15.5%	14.5%	16.6%	81	1.4%	1.2%	1.8%	141	2.9%	2.5%	3.4%
Cambridgeshire Total	**1,355**	**6.8%**	**6.5%**	**7.2%**	**2634**	**14.7%**	**14.2%**	**15.3%**	**292**	**1.5%**	**1.3%**	**1.6%**	**444**	**2.5%**	**2.3%**	**2.7%**

Note: '-' represents values supressed due to low numbers. Small numbers must be observed with caution as they can be subject to annual fluctuation.

Source: National Child Measurement Programme, NHS Digital,

Key
Statistically significantly better than Cambridgeshire average
Statistically similar to Cambridgeshire average
Statistically significantly worse than Cambridgeshire average

Within Cambridgeshire, the percentages of obesity in Reception and Year 6 pupils is statistically significantly low in the 'Professional City Life' and 'Urban Fringe' Supergroups. The percentages of obese/severely obese Reception and Year 6 pupils are statistically significantly high for the 'Disadvantaged urban communities' Supergroup. The percentage of obese/severely obese Year 6 pupils is also statistically significantly high for 'Miscellaneous Built-Up Areas'. Severe obesity is statistically significantly low among the 'Urban fringe' Year 6 pupils.

Table 19: Recorded Prevalence of Obesity by ONS Area Classification Supergroup, Peterborough, 2016/17 – 2018/19 Pooled

ONS Classification	Peterborough															
	Obese								Severe obesity							
	Reception				Year 6				Reception				Year 6			
	N	%	95% CI		N	%	95% CI		N	%	95% CI		N	%	95% CI	
			Lower	Upper			Lower	Upper			Lower	Upper			Lower	Upper
Countryside	19	5.5%	3.6%	8.4%	57	17.3%	13.6%	21.8%	-	-	-	-	9	2.7%	1.4%	5.1%
Disadvantaged Urban Communities	127	9.0%	7.6%	10.6%	324	25.0%	22.7%	27.4%	35	2.5%	1.8%	3.4%	75	5.8%	4.6%	7.2%
Miscellaneous built up areas	230	8.9%	7.9%	10.0%	523	22.4%	20.8%	24.2%	67	2.6%	2.0%	3.3%	124	5.3%	4.5%	6.3%
Multicultural City Life	102	12.3%	10.3%	14.7%	236	26.9%	24.1%	29.9%	32	3.9%	2.8%	5.4%	58	6.6%	5.2%	8.5%
Professional City Life	29	12.8%	9.1%	17.8%	58	29.7%	23.8%	36.5%	-	-	-	-	10	5.1%	2.8%	9.2%
Urban Fringe	177	9.4%	8.2%	10.8%	313	18.3%	16.5%	20.2%	46	2.5%	1.8%	3.3%	59	3.4%	2.7%	4.4%
White Collar Urban	70	7.5%	6.0%	9.4%	172	20.0%	17.5%	22.8%	17	1.8%	1.1%	2.9%	32	3.7%	2.7%	5.2%
Peterborough Total	**754**	**9.2%**	**8.6%**	**9.8%**	**1,683**	**22.1%**	**21.2%**	**23.1%**	**208**	**2.5%**	**2.2%**	**2.9%**	**367**	**4.8%**	**4.4%**	**5.3%**

Note: '-' represents values supressed due to low numbers. Small numbers must be observed with caution as they can be subject to annual fluctuation.

Source: National Child Measurement Programme, NHS Digital.

Key
Statistically significantly better than Peterborough average
Statistically similar to Peterborough average
Statistically significantly worse than Peterborough average

The percentage of obesity is statistically significantly low in the 'Urban Fringe' Super group in Year 6 pupils and 'Countryside' Supergroup in Reception age pupils, compared to the Peterborough average.

The percentages of obesity prevalence in Reception and Year 6 pupils are statistically significantly higher in the 'Multicultural City Life' Supergroup than the Peterborough average.

Obesity is statistically significantly high for Year 6 pupils in the 'Professional City Life' Supergroup.

Table 20: Recorded Prevalence of Obesity by ONS Area Classification Group, Cambridgeshire & Peterborough, 2016/17 – 2018/19 Pooled

ONS Classification	Cambridgeshire and Peterborough															
	Obese								Severe obesity							
	Reception				Year 6				Reception				Year 6			
	N	%	95% CI		N	%	95% CI		N	%	95% CI		N	%	95% CI	
			Lower	Upper			Lower	Upper			Lower	Upper			Lower	Upper
Affluent Urban Commuter	79	5.7%	4.6%	7.0%	174	13.3%	11.5%	15.2%	20	1.4%	0.9%	2.2%	30	2.3%	1.6%	3.2%
Blue Collar Urban Families	125	9.4%	8.0%	11.1%	299	25.3%	22.9%	27.8%	36	2.7%	2.0%	3.7%	69	5.8%	4.6%	7.3%
Countryside Communities	55	8.4%	6.5%	10.7%	111	18.3%	15.4%	21.6%	-	-	-	-	20	3.3%	2.1%	5.0%
Educational Centres	21	4.8%	3.1%	7.2%	34	9.5%	6.9%	12.9%	-	-	-	-	-	-	-	-
Farming and Forestry	127	6.3%	5.3%	7.5%	300	14.5%	13.1%	16.1%	25	1.2%	0.8%	1.8%	40	1.9%	1.4%	2.6%
Mature City Professionals	57	7.0%	5.4%	8.9%	112	16.3%	13.7%	19.2%	10	1.2%	0.7%	2.2%	23	3.3%	2.2%	5.0%
Mature Urban Households	197	7.8%	6.8%	8.9%	383	18.2%	16.6%	19.9%	38	1.5%	1.1%	2.1%	87	4.1%	3.4%	5.1%
Multicultural Suburbia	39	11.9%	8.8%	15.8%	98	26.5%	22.2%	31.2%	14	4.3%	2.6%	7.0%	21	5.7%	3.7%	8.5%
Multicultural Urban	63	12.6%	10.0%	15.8%	138	27.2%	23.5%	31.3%	18	3.6%	2.3%	5.6%	37	7.3%	5.3%	9.9%
Resorts and Retirement	76	6.9%	5.6%	8.6%	163	17.9%	15.6%	20.6%	18	1.6%	1.0%	2.6%	23	2.5%	1.7%	3.8%
Rural Economies	307	6.3%	5.7%	7.0%	576	13.0%	12.0%	14.0%	67	1.4%	1.1%	1.7%	85	1.9%	1.6%	2.4%
Small Town Communities	161	8.7%	7.5%	10.0%	337	20.7%	18.8%	22.7%	49	2.6%	2.0%	3.5%	77	4.7%	3.8%	5.9%
Struggling Urban Families	100	10.3%	8.5%	12.4%	198	23.3%	20.6%	26.3%	26	2.7%	1.8%	3.9%	44	5.2%	3.9%	6.9%
Suburbia	170	8.0%	7.0%	9.3%	390	20.4%	18.7%	22.3%	48	2.3%	1.7%	3.0%	94	4.9%	4.0%	6.0%
Urban Commuter	208	7.9%	7.0%	9.0%	376	15.0%	13.6%	16.4%	53	2.0%	1.6%	2.6%	57	2.3%	1.8%	2.9%
Urban Terracing	53	9.8%	7.6%	12.6%	84	20.5%	16.9%	24.7%	11	2.0%	1.1%	3.6%	-	-	-	-
Well off Mature Households	123	6.1%	5.2%	7.3%	238	13.5%	12.0%	15.2%	28	1.4%	1.0%	2.0%	35	2.0%	1.4%	2.7%
Young Urban Families	148	7.2%	6.1%	8.4%	306	16.6%	14.9%	18.3%	32	1.6%	1.1%	2.2%	51	2.8%	2.1%	3.6%
C&P Total	2,109	7.5%	7.2%	7.8%	4,317	17.0%	16.5%	17.4%	500	1.8%	1.6%	1.9%	811	3.2%	3.0%	3.4%

Note: '-' represents values supressed due to low numbers. Small numbers must be observed with caution as they can be subject to annual fluctuation.

Source: National Child Measurement Programme, NHS Digital.

Key
Statistically significantly better than Cambridgeshire & Peterborough average
Statistically similar to Cambridgeshire & Peterborough average
Statistically significantly worse than Cambridgeshire & Peterborough average

'Blue collar urban families', 'Multicultural suburbia', 'Multicultural urban', 'Small town communities', 'Struggling urban families', and 'Suburbia' ONS groups each have two or more indicators for obesity/severe obesity in the table above that are statistically significantly high, compared to the Cambridgeshire and Peterborough averages.

'Affluent Urban Commuter', 'Educational Centres', 'Farming and Forestry', 'Rural Economies', 'Urban Commuter', and 'Well off Mature Households' ONS groups each have two or more indicators for obesity/severe obesity in the table above that are statistically significantly lower than the Cambridgeshire and Peterborough average.

Table 21: Recorded Prevalence of Obesity by ONS Area Classification Group, Cambridgeshire, 2016/17 – 2018/19 Pooled

ONS Classification	Cambridgeshire															
	Obese								Severe obesity							
	Reception				Year 6				Reception				Year 6			
	N	%	95% CI		N	%	95% CI		N	%	95% CI		N	%	95% CI	
			Lower	Upper			Lower	Upper			Lower	Upper			Lower	Upper
Affluent Urban Commuter	42	4.4%	3.3%	5.9%	95	10.5%	8.7%	12.7%	10	1.1%	0.6%	1.9%	13	1.4%	0.8%	2.5%
Blue Collar Urban Families	91	11.0%	9.0%	13.3%	164	23.5%	20.5%	26.8%	26	3.1%	2.1%	4.6%	37	5.3%	3.9%	7.2%
Countryside Communities	55	8.4%	6.5%	10.7%	111	18.3%	15.4%	21.6%	-	-	-	-	20	3.3%	2.1%	5.0%
Educational Centres	21	4.8%	3.1%	7.2%	34	9.5%	6.9%	12.9%	-	-	-	-	-	-	-	-
Farming and Forestry	126	6.3%	5.4%	7.5%	295	14.4%	13.0%	16.0%	25	1.3%	0.9%	1.9%	39	1.9%	1.4%	2.6%
Mature City Professionals	28	4.7%	3.3%	6.7%	54	10.9%	8.5%	14.0%	-	-	-	-	13	2.6%	1.5%	4.4%
Mature Urban Households	195	7.9%	6.9%	9.1%	364	17.7%	16.1%	19.5%	38	1.5%	1.1%	2.1%	81	3.9%	3.2%	4.9%
Resorts and Retirement	58	6.4%	5.0%	8.2%	118	16.9%	14.3%	19.8%	12	1.3%	0.8%	2.3%	19	2.7%	1.7%	4.2%
Rural Economies	289	6.4%	5.7%	7.1%	524	12.7%	11.7%	13.7%	63	1.4%	1.1%	1.8%	77	1.9%	1.5%	2.3%
Small Town Communities	110	8.9%	7.4%	10.6%	204	18.7%	16.5%	21.1%	33	2.7%	1.9%	3.7%	40	3.7%	2.7%	5.0%
Struggling Urban Families	7	11.7%	5.8%	22.2%	9	24.3%	13.4%	40.1%	-	-	-	-	-	-	-	-
Suburbia	42	6.0%	4.5%	8.0%	97	16.3%	13.6%	19.5%	9	1.3%	0.7%	2.4%	21	3.5%	2.3%	5.3%
Urban Commuter	68	5.7%	4.5%	7.2%	142	11.8%	10.1%	13.7%	17	1.4%	0.9%	2.3%	15	1.2%	0.8%	2.0%
Urban Terracing	20	10.7%	7.0%	15.9%	32	22.5%	16.4%	30.1%	-	-	-	-	-	-	-	-
Well off Mature Households	95	6.1%	5.0%	7.4%	169	12.5%	10.9%	14.4%	22	1.4%	0.9%	2.1%	27	2.0%	1.4%	2.9%
Young Urban Families	108	6.6%	5.5%	7.9%	222	15.2%	13.5%	17.2%	21	1.3%	0.8%	2.0%	33	2.3%	1.6%	3.2%
Cambridgeshire Total	**1,355**	**6.8%**	**6.5%**	**7.2%**	**2,634**	**14.7%**	**14.2%**	**15.3%**	**292**	**1.5%**	**1.3%**	**1.6%**	**444**	**2.5%**	**2.3%**	**2.7%**

Note: '-' represents values supressed due to low numbers. Small numbers must be observed with caution as they can be subject to annual fluctuation.

Source: National Child Measurement Programme, NHS Digital.

Key
Statistically significantly better than Cambridgeshire average
Statistically similar to Cambridgeshire average
Statistically significantly worse than Cambridgeshire average

The 'Blue collar urban families' and 'Small town communities' ONS groups have levels of obesity/severe obesity for Reception age pupils that are statistically significantly high.

'Mature urban households' have statistically significantly high levels of obesity for Year 6 pupils.

Six ONS groups have levels of obesity for Year 6 pupils that are statistically significantly low compared to Cambridgeshire.

Table 22: Recorded Prevalence of Obesity by ONS Area Classification Group, Peterborough, 2016/17 – 2018/19 Pooled

ONS Classification	Peterborough															
	Obese								Severe obesity							
	Reception				Year 6				Reception				Year 6			
	N	%	95% CI		N	%	95% CI		N	%	95% CI		N	%	95% CI	
			Lower	Upper			Lower	Upper			Lower	Upper			Lower	Upper
Affluent Urban Commuter	37	8.3%	6.1%	11.3%	79	19.3%	15.8%	23.4%	10	2.2%	1.2%	4.1%	17	4.2%	2.6%	6.6%
Blue Collar Urban Families	34	6.9%	5.0%	9.5%	135	27.8%	24.0%	31.9%	10	2.0%	1.1%	3.7%	32	6.6%	4.7%	9.1%
Farming and Forestry	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mature City Professionals	29	12.8%	9.1%	17.8%	58	29.7%	23.8%	36.5%	7	3.1%	1.5%	6.3%	10	5.1%	2.8%	9.2%
Mature Urban Households	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Multicultural Suburbia	39	11.9%	8.8%	15.8%	98	26.5%	22.2%	31.2%	14	4.3%	2.6%	7.0%	21	5.7%	3.7%	8.5%
Multicultural Urban	63	12.6%	10.0%	15.8%	138	27.2%	23.5%	31.3%	18	3.6%	2.3%	5.6%	37	7.3%	5.3%	9.9%
Resorts and Retirement	18	9.0%	5.8%	13.8%	45	21.5%	16.5%	27.6%	-	3.0%	1.4%	6.4%	-	-	-	-
Rural Economies	18	5.6%	3.6%	8.7%	52	17.0%	13.2%	21.6%	-	1.2%	0.5%	3.2%	8	2.6%	1.3%	5.1%
Small Town Communities	51	8.2%	6.3%	10.6%	133	24.6%	21.2%	28.4%	16	2.6%	1.6%	4.1%	37	6.9%	5.0%	9.3%
Struggling Urban Families	93	10.2%	8.4%	12.3%	189	23.3%	20.5%	26.3%	25	2.7%	1.9%	4.0%	43	5.3%	4.0%	7.1%
Suburbia	128	9.1%	7.7%	10.7%	293	22.2%	20.1%	24.6%	39	2.8%	2.0%	3.8%	73	5.5%	4.4%	6.9%
Urban Commuter	140	9.8%	8.3%	11.4%	234	18.0%	16.0%	20.2%	36	2.5%	1.8%	3.5%	42	3.2%	2.4%	4.3%
Urban Terracing	33	9.3%	6.7%	12.8%	52	19.5%	15.2%	24.6%	-	-	-	-	10	3.7%	2.0%	6.8%
Well off Mature Households	28	6.4%	4.5%	9.1%	69	16.7%	13.4%	20.6%	-	-	-	-	8	1.9%	1.0%	3.8%
Young Urban Families	40	9.3%	6.9%	12.4%	84	21.5%	17.7%	25.8%	11	2.6%	1.4%	4.5%	18	4.6%	2.9%	7.2%
Peterborough Total	**754**	**9.2%**	**8.6%**	**9.8%**	**1,683**	**22.1%**	**21.2%**	**23.1%**	**208**	**2.5%**	**2.2%**	**2.9%**	**367**	**4.8%**	**4.4%**	**5.3%**

Note: '-' represents values supressed due to low numbers. Small numbers must be observed with caution as they can be subject to annual fluctuation.

Source: National Child Measurement Programme, NHS Digital.

Key
Statistically significantly better than Peterborough average
Statistically similar to Peterborough average
Statistically significantly worse than Peterborough average

ONS groupings for Peterborough are generally statistically similar to the area average, in part due to relatively low numbers. Statistically significantly low percentages are observed within the 'Urban commuter', and 'Well off mature households' ONS groups. Statistically significantly high percentages are observed in 'Blue Collar Urban Families', 'Mature Urban households, 'Multicultural Suburbia' and 'Multicultural Urban' ONS groups. All of the observations are for Year 6 pupils. Prevalence of obesity in Reception pupils is statistically significantly high within the 'Multicultural Urban' ONS group.

4.7 Population & Clinical Obesity Definitions Analysis

NHS Digital also provides data using clinical obesity thresholds, as well as the usual population definition for obesity. For population monitoring, obesity is defined as having a Body Mass Index (BMI) greater than or equal to the 95th centile, whereas in the clinical setting, obesity is defined as a BMI greater than or equal to the 98th centile. Due to this higher threshold for inclusion, percentages of observed obese pupils are smaller when using the clinical obesity threshold than the population monitoring threshold as noted within the three tables below.

Table 23: Recorded Prevalence of Obesity - Population & Clinical Definitions, Cambridgeshire & Peterborough, 2016/17 - 2018/19 Pooled

Sex	Cambridgeshire and Peterborough															
	Population cut offs								Clinical cut offs							
	Reception				Year 6				Reception				Year 6			
	N	%	95% CI		N	%	95% CI		N	%	95% CI		N	%	95% CI	
			Lower	Upper			Lower	Upper			Lower	Upper			Lower	Upper
Female	998	7.3%	6.8%	7.7%	1,820	14.7%	14.1%	15.3%	579	4.2%	3.9%	4.6%	1,123	9.1%	8.6%	9.6%
Male	1,111	7.7%	7.3%	8.2%	2,497	19.1%	18.4%	19.8%	660	4.6%	4.3%	5.0%	1,647	12.6%	12.0%	13.2%
C&P	**2,109**	**7.5%**	**7.2%**	**7.8%**	**4,317**	**17.0%**	**16.5%**	**17.4%**	**1,239**	**4.4%**	**4.2%**	**4.7%**	**2,770**	**10.9%**	**10.5%**	**11.3%**

Source: National Child Measurement Programme, NHS Digital

Key
Statistically significantly better than Cambridgeshire & Peterborough average
Statistically similar to Cambridgeshire & Peterborough average
Statistically significantly worse than Cambridgeshire & Peterborough average

Data using both the population cut offs and clinical cut offs show statistically significantly high percentages of obesity and severe obesity for Year 6 male pupils compared to the Cambridgeshire and Peterborough average and, conversely, statistically significantly low percentages for females. All other values are statistically similar to the Cambridgeshire and Peterborough average.

Table 24: Recorded Prevalence of Obesity - Population & Clinical Definitions, Cambridgeshire, 2016/17 - 2018/19 Pooled

Sex	Cambridgeshire															
	Population cut offs								Clinical cut offs							
	Reception				Year 6				Reception				Year 6			
	N	%	95% CI		N	%	95% CI		N	%	95% CI		N	%	95% CI	
			Lower	Upper			Lower	Upper			Lower	Upper			Lower	Upper
Female	627	6.4%	5.9%	6.9%	1,104	12.8%	12.1%	13.5%	341	3.5%	3.1%	3.9%	649	7.5%	7.0%	8.1%
Male	728	7.2%	6.7%	7.7%	1,530	16.6%	15.8%	17.4%	409	4.0%	3.7%	4.4%	971	10.5%	9.9%	11.2%
Cambridgeshire	**1,355**	**6.8%**	**6.5%**	**7.2%**	**2,634**	**14.7%**	**14.2%**	**15.3%**	**750**	**3.8%**	**3.5%**	**4.0%**	**1,620**	**9.1%**	**8.7%**	**9.5%**

Source: National Child Measurement Programme, NHS Digital

Key
Statistically significantly better than Cambridgeshire average
Statistically similar to Cambridgeshire average
Statistically significantly worse than Cambridgeshire average

Data using both the population cut offs and clinical cut offs show statistically significantly high percentages of obesity and severe obesity for Year 6 male pupils compared to the Cambridgeshire average and, conversely, statistically significantly low percentages for females. This was also found for Cambridgeshire and Peterborough combined.

Table 25: Recorded Prevalence of Obesity - Population & Clinical Definitions, Peterborough, 2016/17 - 2018/19 Pooled

Sex	Peterborough															
	Population cut offs								Clinical cut offs							
	Reception				Year 6				Reception				Year 6			
	N	%	95% CI		N	%	95% CI		N	%	95% CI		N	%	95% CI	
			Lower	Upper			Lower	Upper			Lower	Upper			Lower	Upper
Female	371	9.3%	8.5%	10.3%	716	19.2%	17.9%	20.4%	238	6.0%	5.3%	6.8%	474	12.7%	11.7%	13.8%
Male	383	9.1%	8.2%	10.0%	967	25.0%	23.7%	26.4%	251	5.9%	5.3%	6.7%	676	17.5%	16.3%	18.7%
Peterborough	**754**	**9.2%**	**8.6%**	**9.8%**	**1,683**	**22.1%**	**21.2%**	**23.1%**	**489**	**6.0%**	**5.5%**	**6.5%**	**1,150**	**15.1%**	**14.3%**	**16.0%**

Source: National Child Measurement Programme, NHS Digital

Key
Statistically significantly better than Peterborough average
Statistically similar to Peterborough average
Statistically significantly worse than Peterborough average

Data using both the population cut offs and clinical cut offs show statistically significantly high percentages of obesity and severe obesity for Year 6 male pupils compared to the Peterborough average and, conversely, statistically significantly low percentages for females. This was also found for Cambridgeshire and Peterborough combined.

4.8 Small Area Analysis – NCMP Obesity and Overweight Prevalence, Cambridgeshire and Peterborough Lower Super Output Areas, 2016/17 – 2018/19.

LSOA level data maps help the visualisation of recorded obesity prevalence across the Cambridgeshire and Peterborough area. However, it is important that these maps of small geography data are used with caution as such small numbers are subject to a higher degree of natural variation, and as such this may cause issues of validity.

Figure 3: Cambridgeshire & Peterborough Area Boundaries, LSOA Boundaries & Key Towns

Figure 4: Reception Obesity Recorded Prevalence, Cambridgeshire & Peterborough LSOAs, 2016/17 - 2018/19 Pooled Data

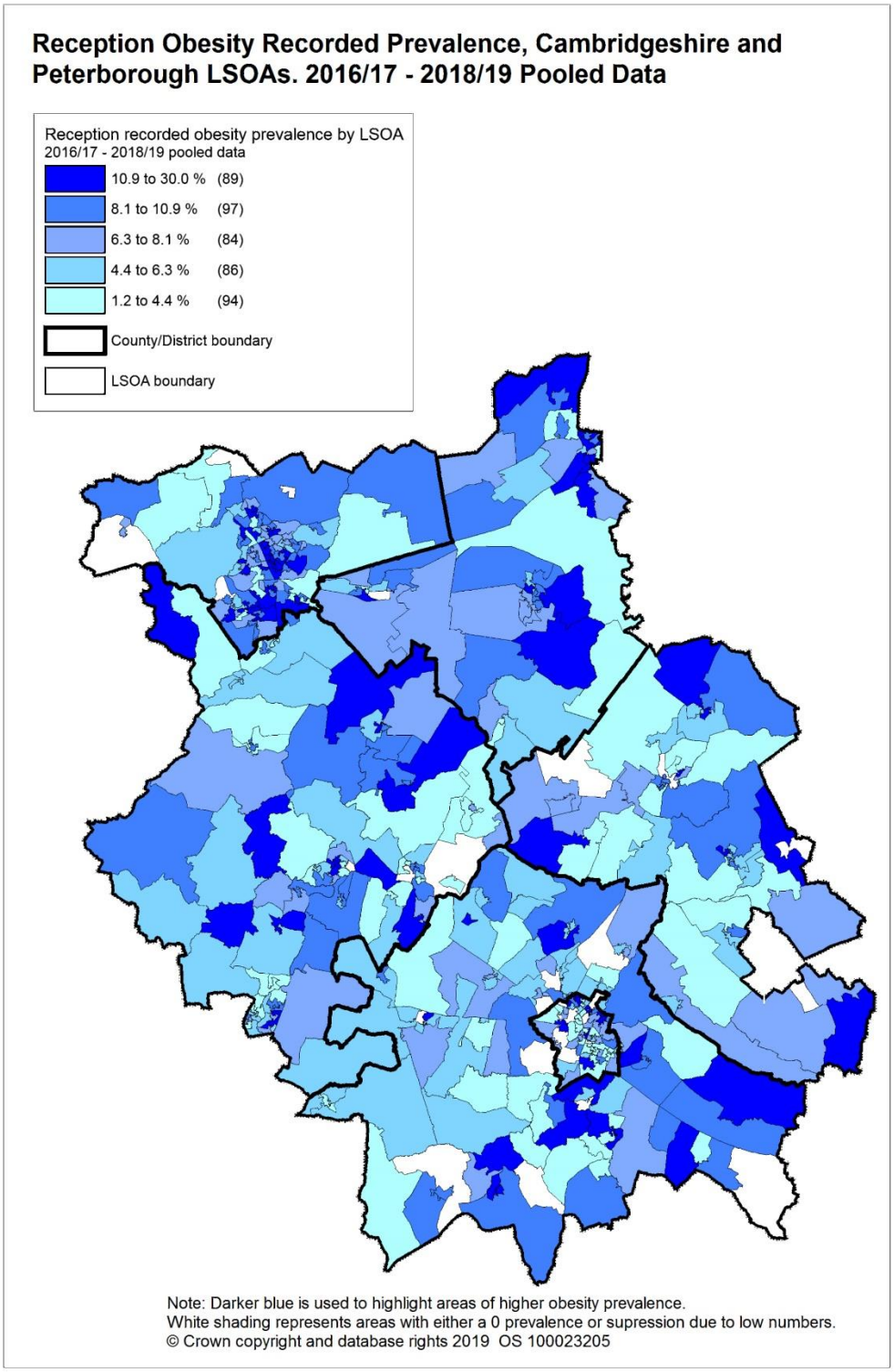


Figure 5: Reception Overweight Recorded Prevalence, Cambridgeshire & Peterborough LSOAs, 2016/17 - 2018/19Pooled Data

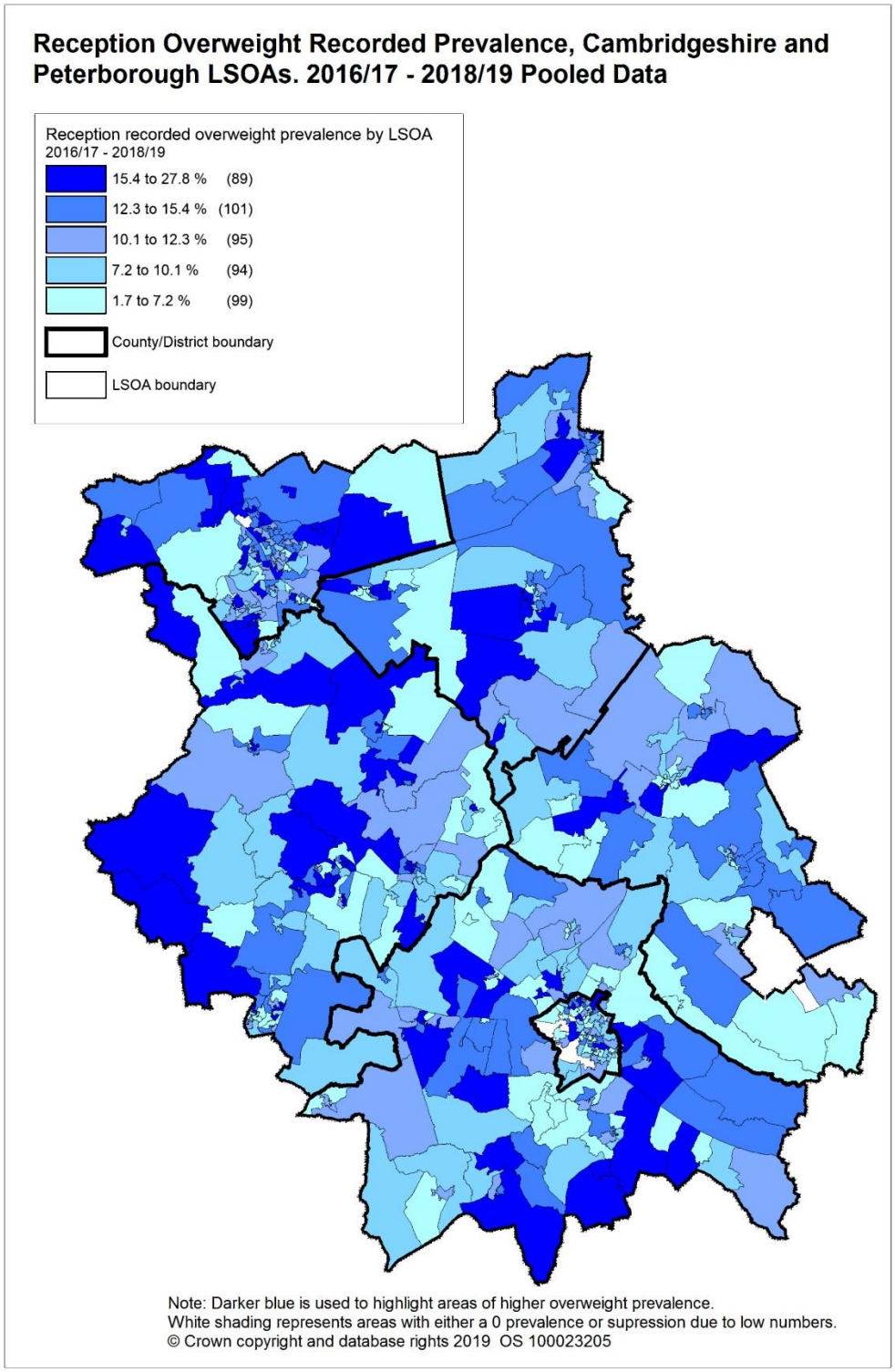


Figure 6: Year 6 Obesity Recorded Prevalence, Cambridgeshire & Peterborough LSOAs, 2016/17 - 2018/19 Pooled Data

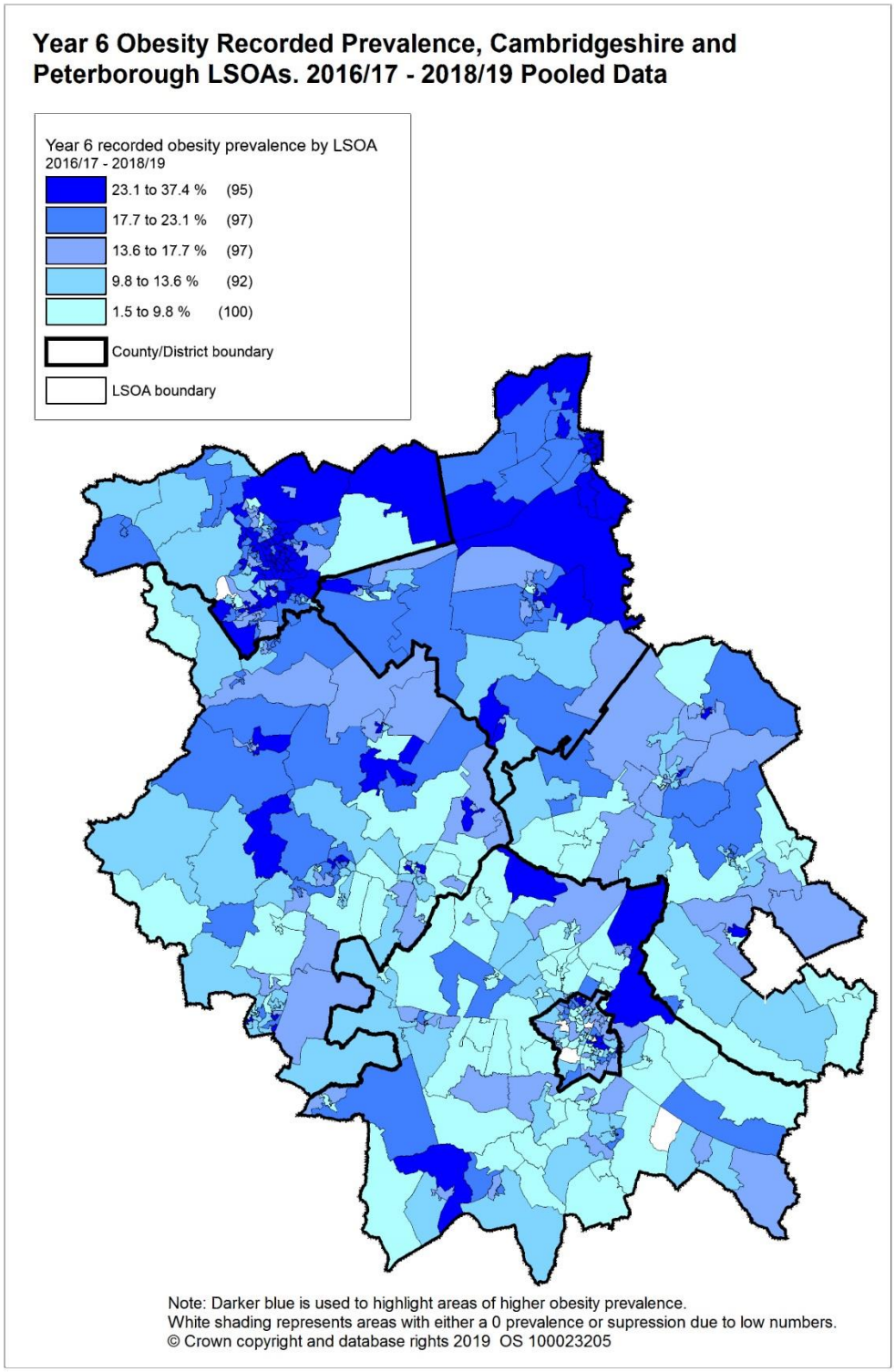


Figure 7: Year 6 Overweight Recorded Prevalence, Cambridgeshire & Peterborough LSOAs, 2016/17 - 2018/19 Pooled Data

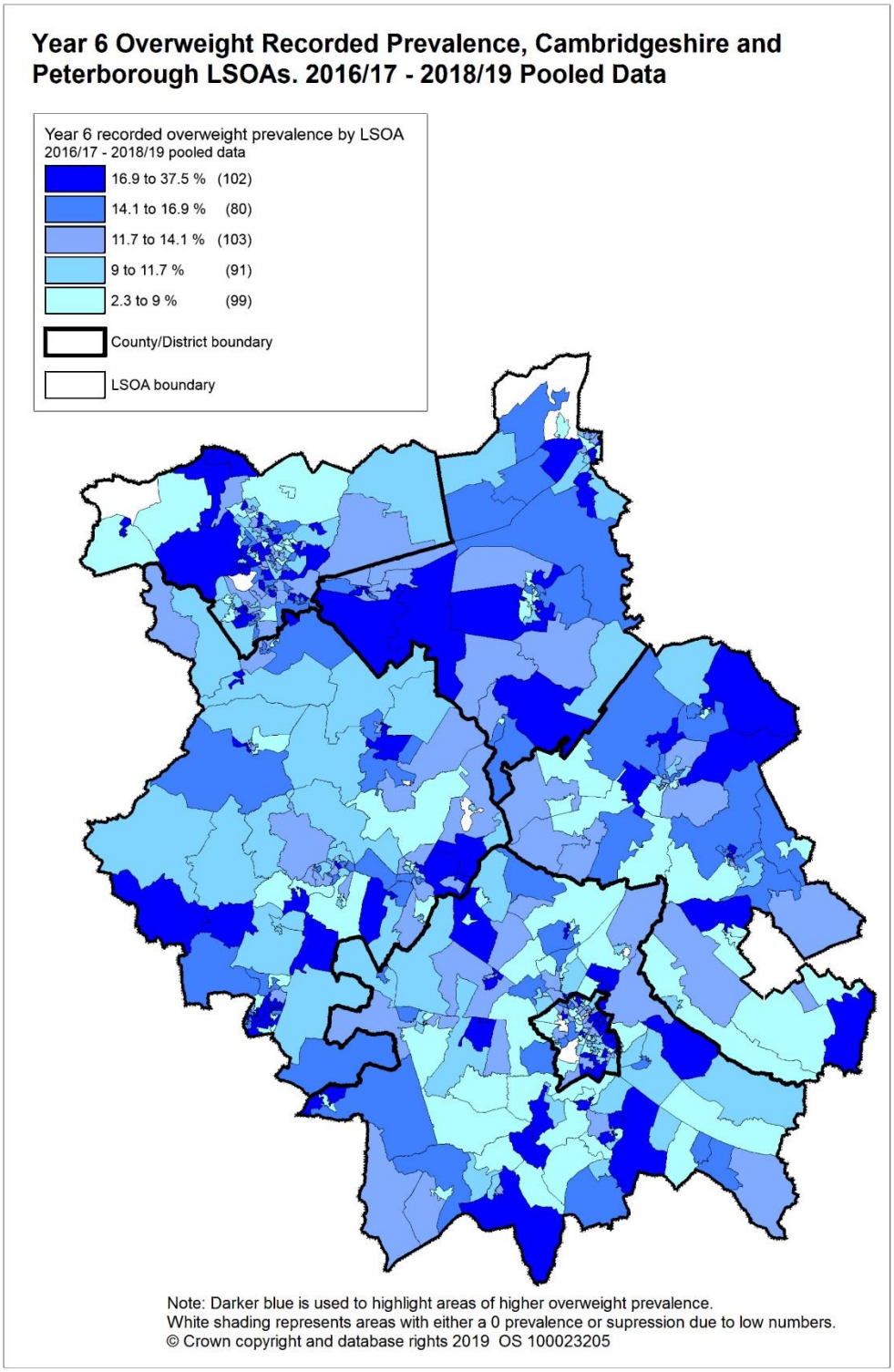


Figure 8: Reception Obesity Recorded Prevalence, Cambridgeshire LSOAs, 2016/17 - 2018/19 Pooled Data

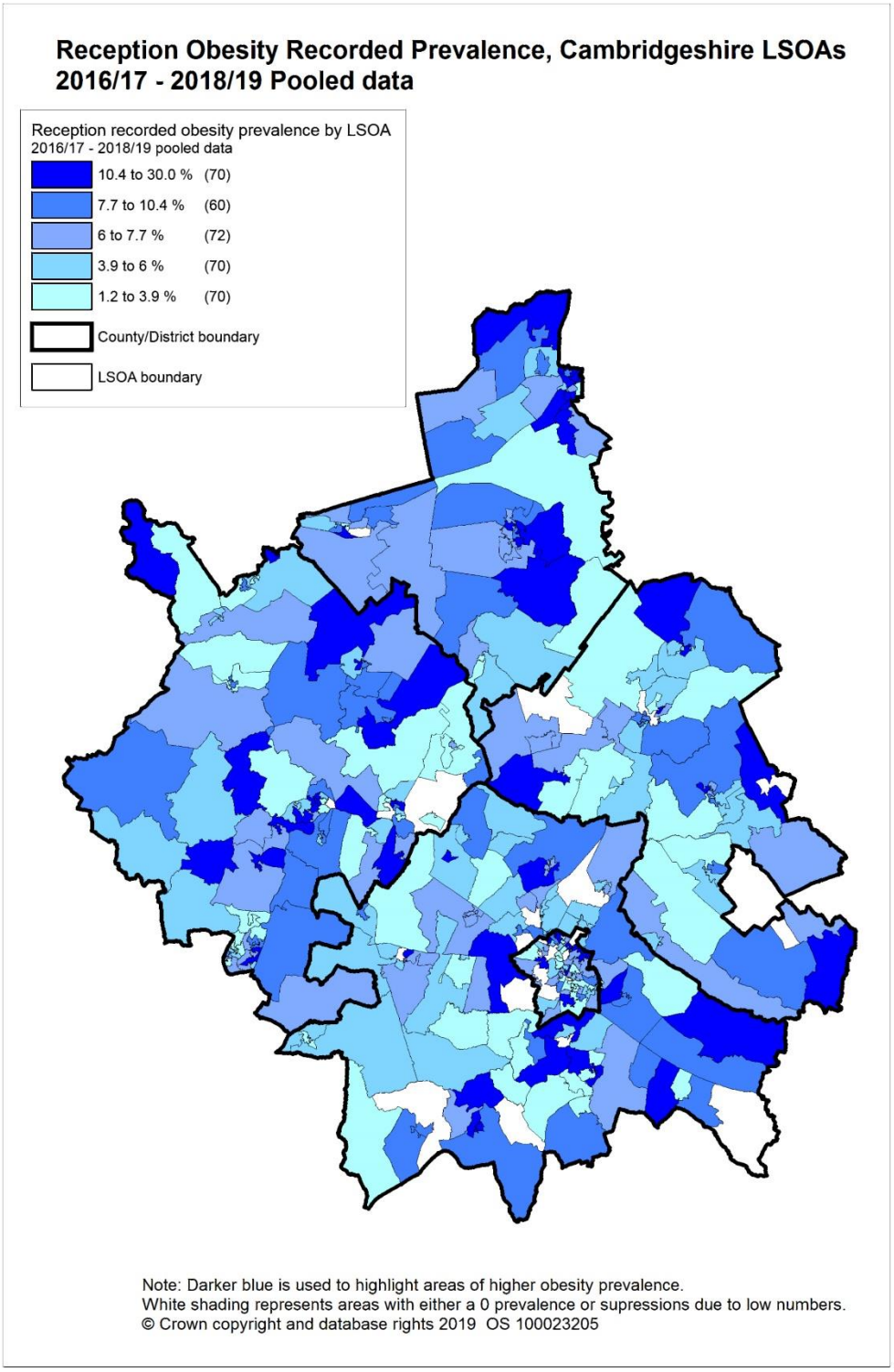


Figure 9: Reception Overweight Recorded Prevalence, Cambridgeshire LSOAs, 2016/17 - 2018/19 Pooled Data

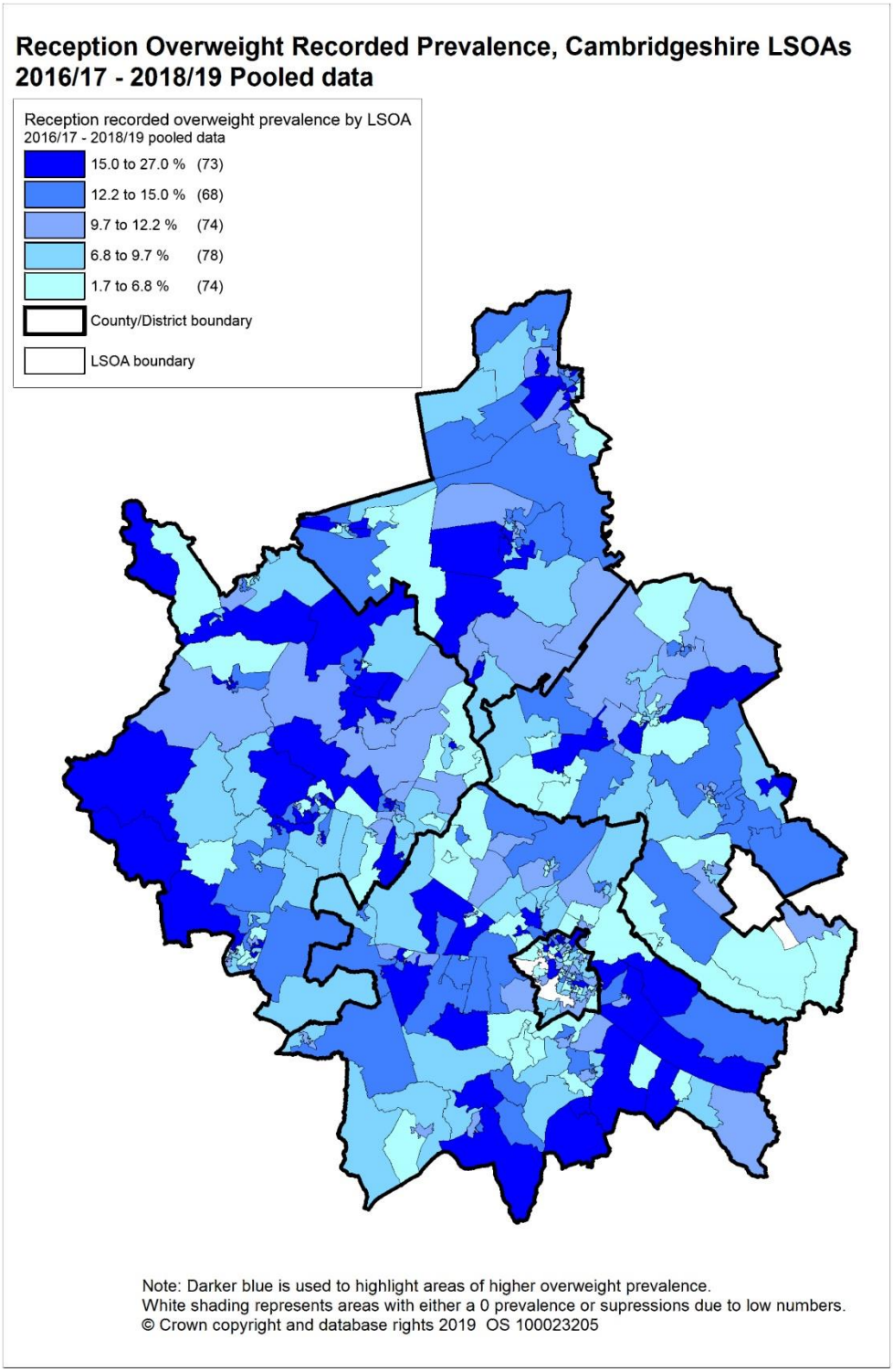


Figure 10: Year 6 Obesity Recorded Prevalence, Cambridgeshire LSOAs, 2016/17 - 2018/19 Pooled Data

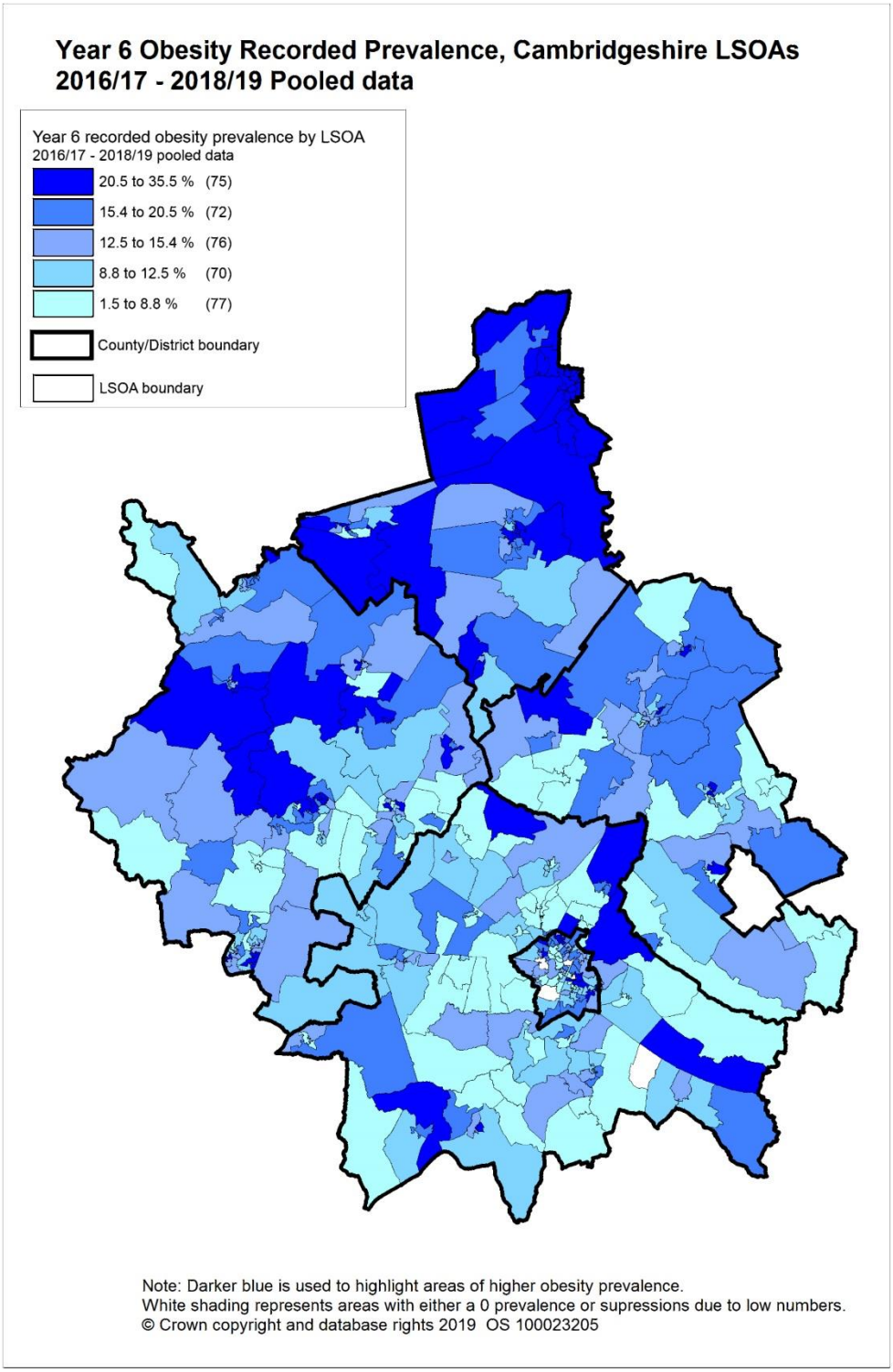


Figure 11: Year 6 Overweight Recorded Prevalence, Cambridgeshire LSOAs, 2016/17 - 2018/19 Pooled Data

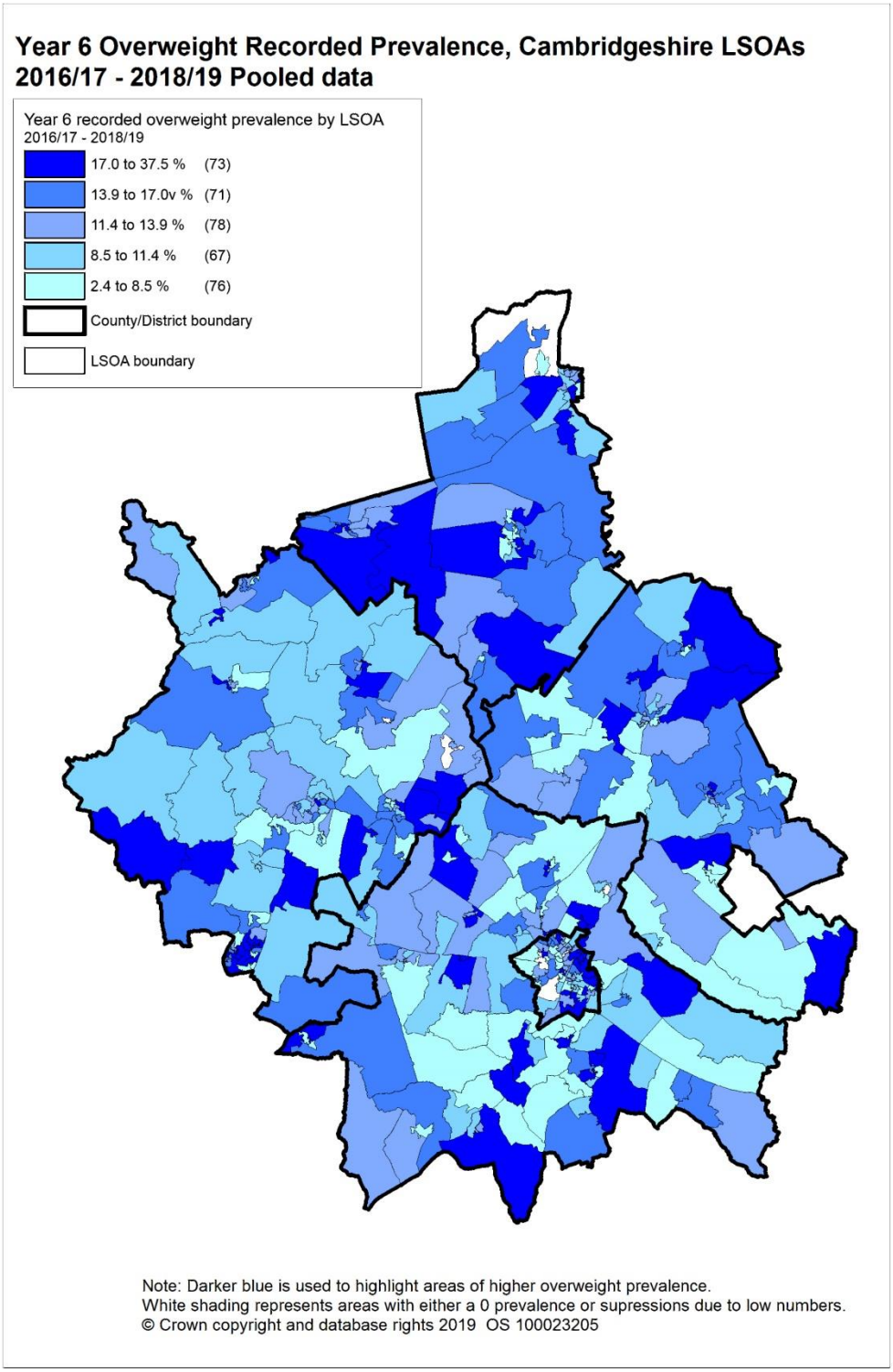


Figure 121: Reception Obesity Recorded Prevalence, Peterborough LSOAs, 2016/17 - 2018/19 Pooled Data

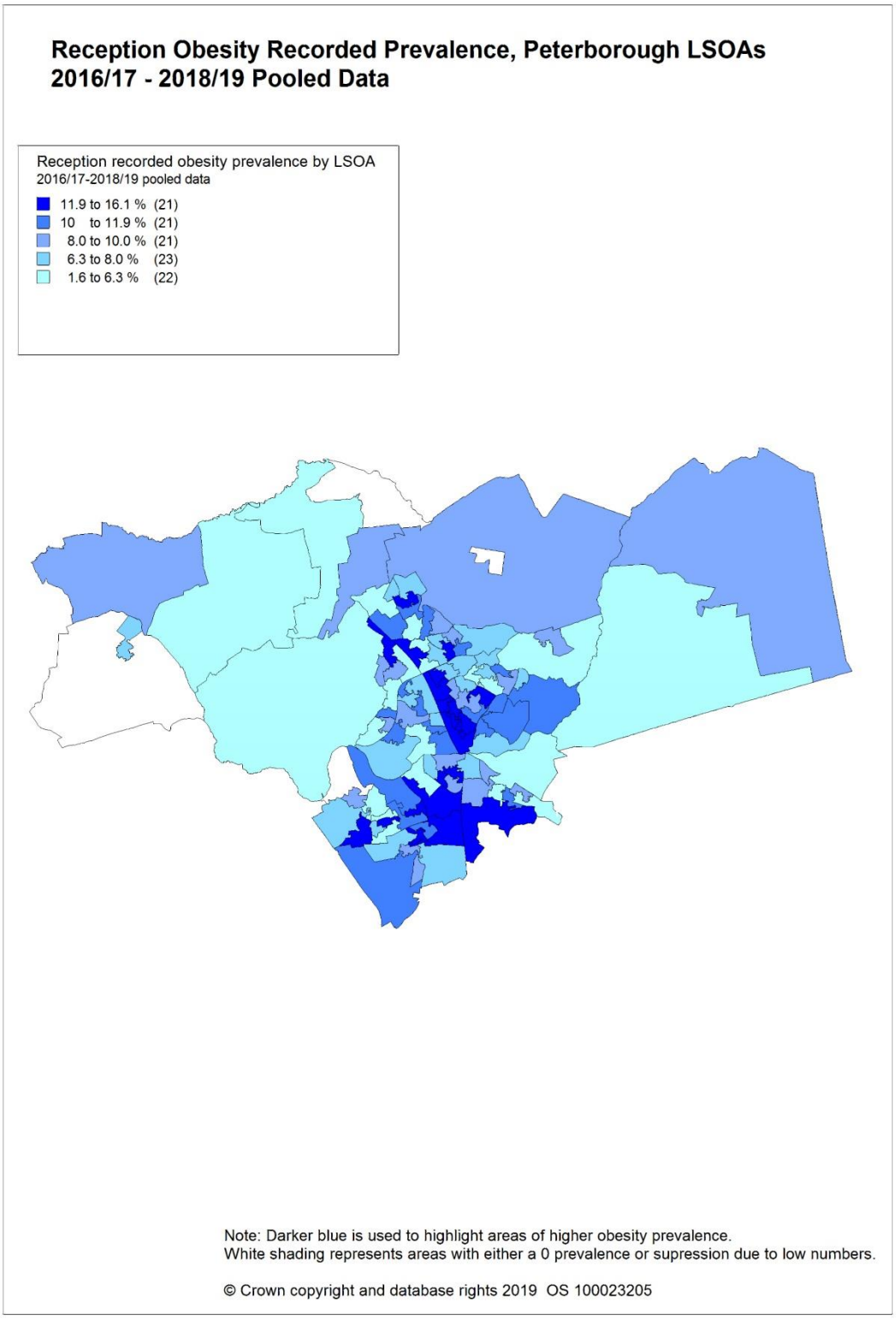


Figure 13: Reception Overweight Recorded Prevalence, Peterborough LSOAs, 2016/17 - 2018/19 Pooled Data

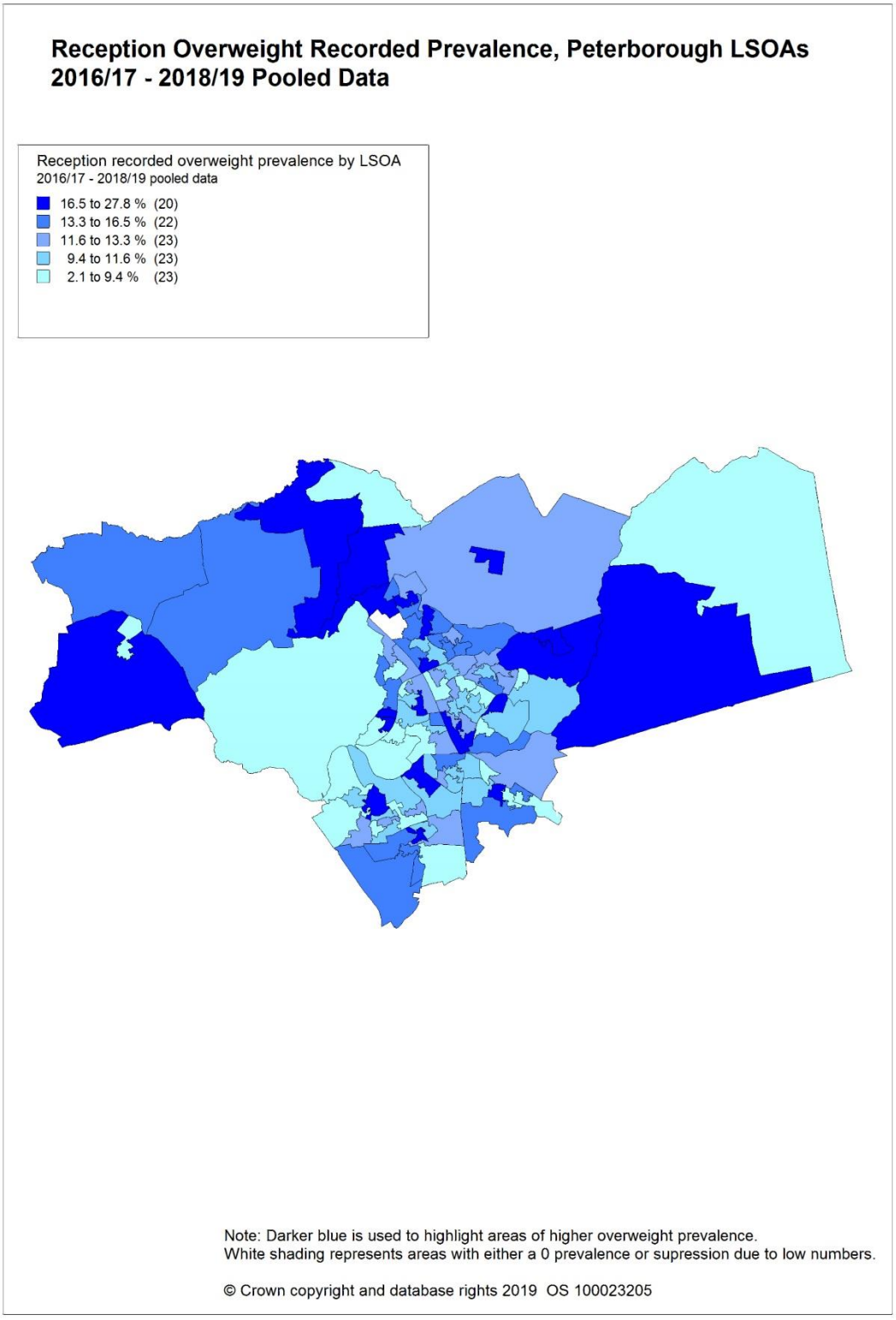


Figure 2 Year 6 Obesity Recorded Prevalence, Peterborough LSOAs, 2016/17 - 2018/19 Pooled Data

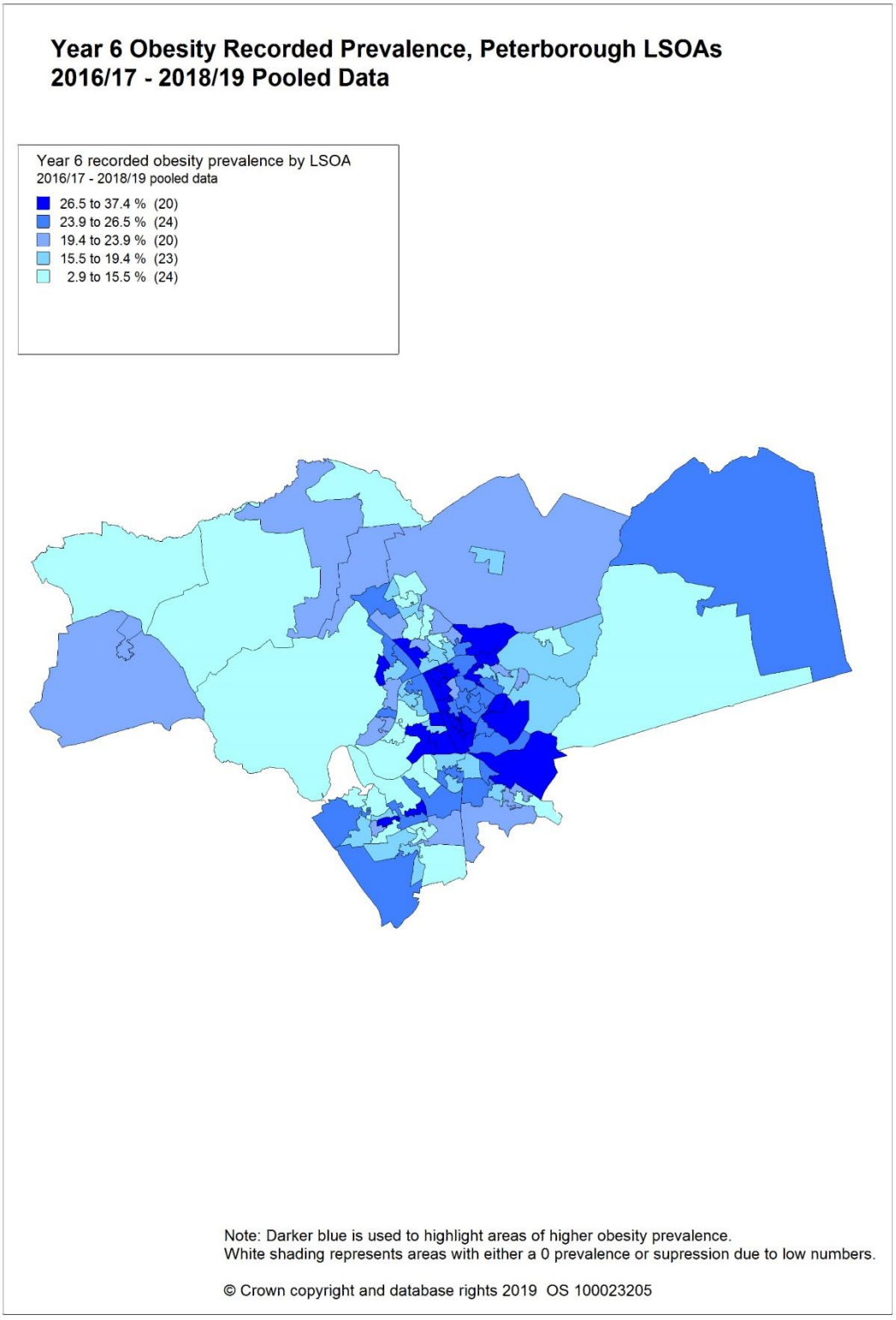
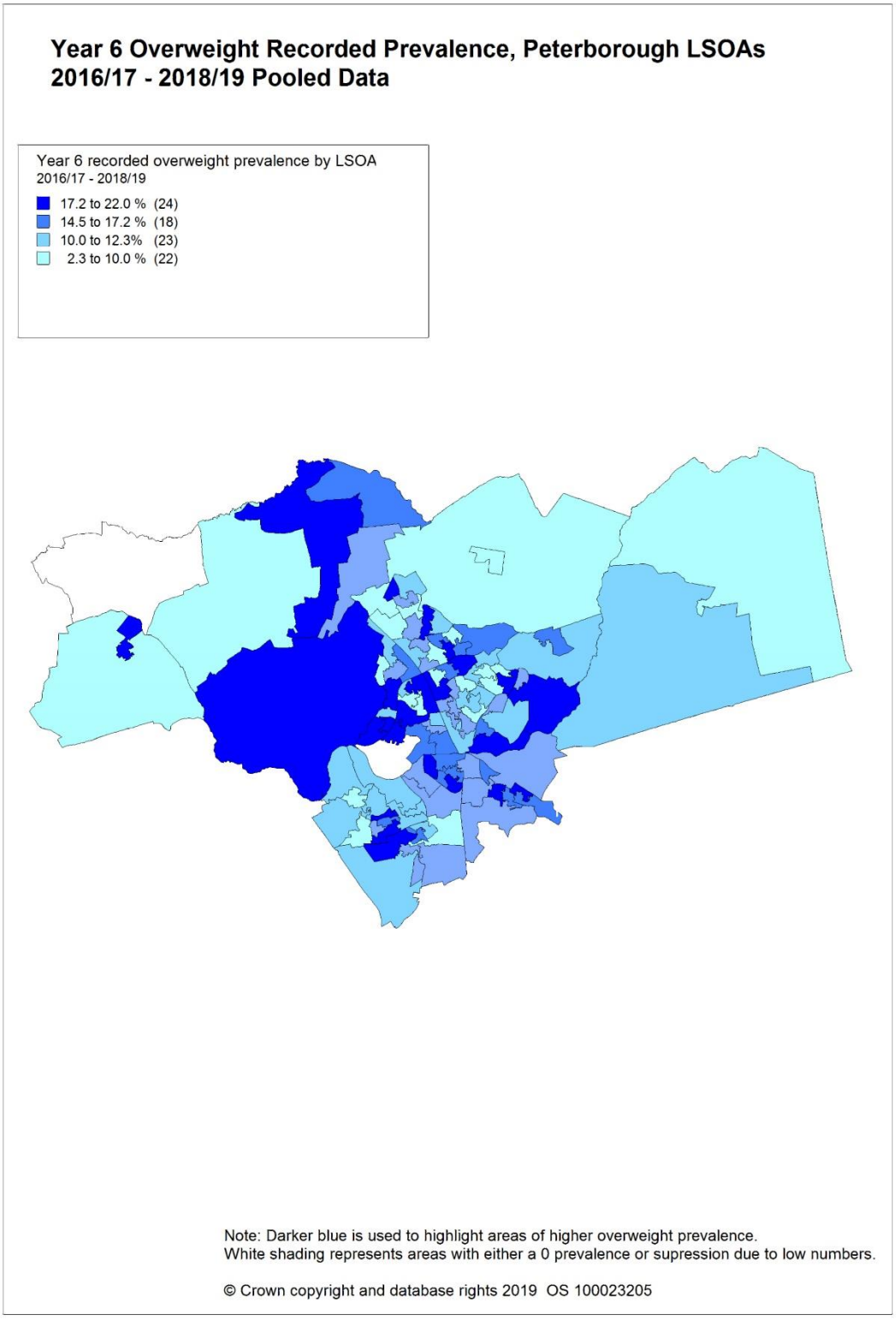



Figure 15: Year 6 Overweight Recorded Prevalence, Peterborough LSOAs, 2016/17 - 2018/19 Pooled Data