

In Sheffield 243 5-year-olds (approximately 61.0% of those sampled) were examined at school by trained and calibrated examiners using the national standard method².

Figure 1: Prevalence of experience of dental decay and mean number of teeth with experience of dental decay in 5-year-olds in Sheffield, other local authorities in Yorkshire and The Humber and England.

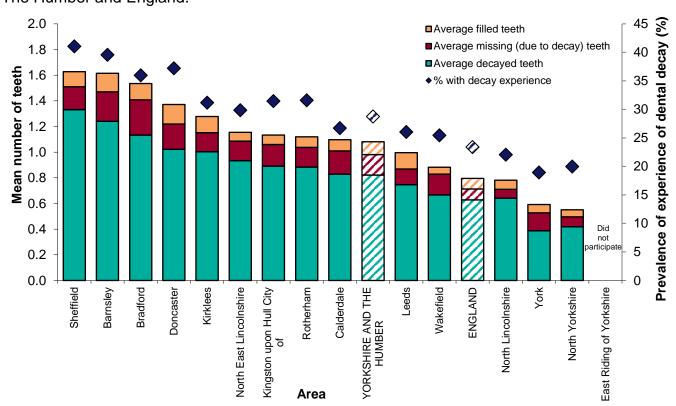


Table 1: Experience of dental decay in 5-year-olds in Sheffield, other local authorities in Yorkshire and The Humber and England.

Local authority	Prevalence of experience of dental decay (%)	Mean number of teeth with experience of dental decay in all examined children n (95% confidence intervals)	Mean number of teeth with experience of dental decay in children with any decay experience n (95% confidence intervals)	
Sheffield	41.0	1.6 (1.26 - 1.99)	4.0 (3.32 - 4.60)	
Barnsley	39.6	1.6 (1.25 - 1.98)	4.1 (3.42 - 4.74)	
Doncaster	37.2	1.4 (1.06 - 1.68)	3.7 (3.07 - 4.30)	
Bradford	36.0	1.5 (1.37 - 1.70)	4.3 (3.94 - 4.60)	
Rotherham	31.6	1.1 (0.84 - 1.40)	3.5 (2.92 - 4.17)	
Kingston upon Hull, City of	31.4	1.1 (0.85 - 1.42)	3.6 (2.96 - 4.25)	
Kirklees	31.2	1.3 (0.98 - 1.58)	4.1 (3.40 - 4.80)	
North East Lincolnshire	29.8	1.2 (0.86 - 1.45)	3.9 (3.21 - 4.53)	
Yorkshire and The Humber	28.7	1.1 (1.02 - 1.14)	3.8 (3.62 - 3.90)	
Calderdale	26.7	1.1 (0.83 - 1.36)	4.1 (3.51 - 4.70)	
Leeds	26.0	1.0 (0.87 - 1.12)	3.8 (3.49 - 4.16)	
Wakefield	25.4	0.9 (0.65 - 1.11)	3.5 (2.85 - 4.09)	
England	23.4	0.8 (0.78 - 0.81)	3.4 (3.36 - 3.44)	
North Lincolnshire	22.0	0.8 (0.51 - 1.06)	3.5 (2.66 - 4.44)	
North Yorkshire	20.0	0.6 (0.48 - 0.63)	2.8 (2.50 - 3.01)	
York	18.9	0.6 (0.25 - 0.94)	3.1 (2.62 - 3.64)	
East Riding of Yorkshire	Did not participate			

Table 2. Measures of oral health among 5-year-olds in Sheffield, it's statistical neighbours, Yorkshire and The Humber and England.

	Sheffield	Statistical neighbour within Yorkshire and The Humber: Leeds	Statistical neighbour comparator 1: Derby	Yorkshire and The Humber	England
Prevalence of experience of dental decay	41.0%	26.0%	27.4%	28.7%	23.4%
Mean number of teeth with experience of dental decay	1.6	1.0	1.0	1.1	0.8
Mean number of teeth with experience of decay in those with experience of dental decay	4.0	3.8	3.6	3.8	3.4
Mean number of decayed teeth in those with experience of dental decay	3.1	2.8	2.9	2.8	2.7
Proportion with active decay	38.8%	20.9%	23.7%	24.8%	20.4%
Proportion with experience of tooth extraction ⁱⁱ	4.2%	3.1%	1.0%	3.6%	2.2%
Proportion with dental abscess	1.2%	0.5%	1.0%	1.4%	1.0%
Proportion with teeth decayed into pulp	10.3%	5.4%	4.0%	5.2%	3.3%
Proportion with decay affecting incisors ⁱⁱⁱ	15.4%	6.7%	4.7%	7.6%	5.2%
Proportion with high levels of plaque present on upper front teeth ^{iv}	0.6%	0.3%	0.0%	1.3%	1.2%

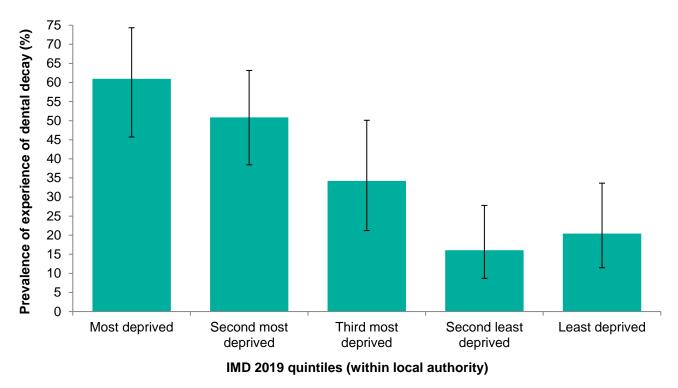
¹ generated by the children's services statistical neighbour benchmarking tool, the neighbour within Yorkshire and The Humber has "Very Close" comparator characteristics and the national neighbour 1 has "Very Close" comparator characteristics³.

ii experience of extraction of one or more teeth on one or more occasions.

iii dental decay involving one or more surfaces of upper anterior teeth.

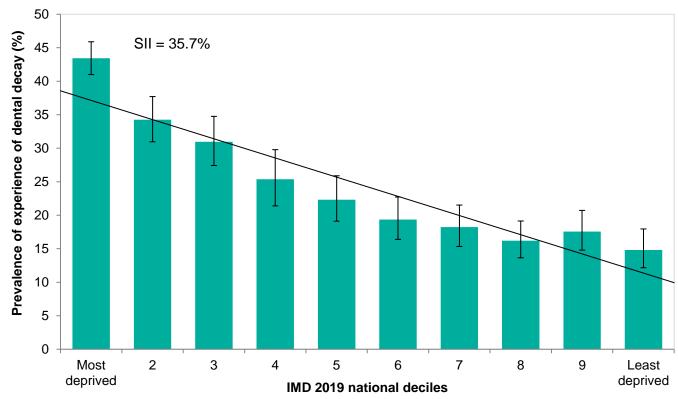
iv indicative of poor tooth brushing habits.

Figure 2: Prevalence of experience of dental decay in 5-year-olds in Sheffield, by local authority Index of Multiple Deprivation (IMD) 2019 quintiles.



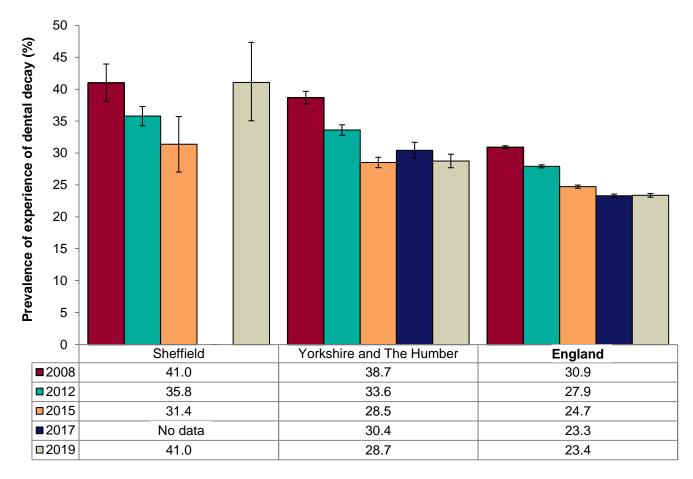
Error bars represent 95% confidence limits

Figure 3: Slope index of inequality in the prevalence of experience of dental decay in 5-year-olds in Yorkshire and The Humber.



Error bars represent 95% confidence limits

Figure 4: Prevalence of experience of dental decay in 5-year-olds in Sheffield, Yorkshire and The Humber and England, by year.

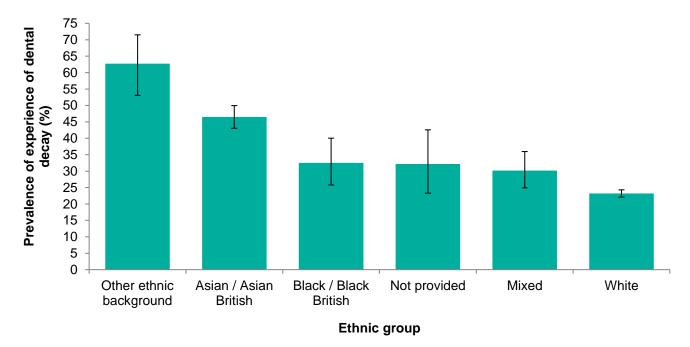


Error bars represent 95% confidence limits

Table 3: Experience of dental decay in 5-year-olds in Yorkshire and The Humber, by ethnic group.

Ethnic group	Number of children examined (N)	Prevalence of experience of dental decay (%)	Mean number of teeth with experience of dental decay among children with any experience of dental decay n (95% CI)	Prevalence of dental decay affecting incisors (%)
Other ethnic background	102	62.7	5.2 (4.26 - 6.08)	31.4
Asian / Asian British	798	46.5	4.4 (4.10 - 4.78)	16.3
Black / Black British	163	32.5	4.3 (3.36 - 5.21)	11.7
Not provided	87	32.2	4.2 (2.89 - 5.47)	8.0
Mixed	262	30.2	3.7 (3.04 - 4.35)	7.6
White	5,607	23.2	3.3 (3.17 - 3.47)	4.9
Yorkshire and The Humber	7,019	28.7	1.1 (3.62 - 3.90)	7.6

Figure 5: Prevalence of experience of dental decay in 5-year-olds in Yorkshire and The Humber, by ethnic group.



Error bars represent 95% confidence limits

Summary

In Sheffield average levels of dental decay are higher than the average for England.

The small sample size means it is not possible to provide information at ward level. Future surveys could be commissioned to provide larger samples to facilitate local analysis. Commissioning High Quality Information to Support Oral Health Improvement: A toolkit about dental epidemiology for local authorities, commissioners and partners is available to support the commissioning of oral health surveys⁴.

Public health interventions can improve child oral health at a local level. Local authorities improving oral health: commissioning better oral health for children and young people is available to support local authorities to commission oral health improvement programmes for children and young people aged up to 19 years⁵.

If further local analysis is required, please contact the national dental public health team: DentalPHIntelligence@phe.gov.uk

References

- 1. Public Health England (2020). National Dental Epidemiology Programme for England: oral health survey of 5-year-olds 2019 [Online]. Available at: https://www.gov.uk/government/statistics/oral-health-survey-of-5-year-old-children-2019 [Accessed 29 May 2020].
- 2. Pine, C.M., Pitts, N.B. and Nugent, Z.J. (1997a). British Association for the Study of Community Dentistry (BASCD) guidance on the statistical aspects of training and calibration of examiners for surveys of child dental health. A BASCD co-ordinated dental epidemiology programme quality standard. Community Dental Health 14 (Supplement 1):18-29.
- 3. Children's services statistical neighbour benchmarking tool [online]. Available at: www.gov.uk/government/publications/local-authority-interactive-tool-lait [Accessed 29 May 2020].
- 4. Public Health England (2016). Commissioning high quality information to support oral health improvement. A toolkit about dental epidemiology for local authorities, commissioners and partners [Online]. Available at:

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More information is available at www.gov.uk/government/collections/oral-health Please send any enquiries to DentalPHIntelligence@phe.gov.uk

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