



Redcar and Cleveland

Published March 2021

Oral health of 5-year-old children

This profile describes the oral health of 5-year-olds living in Redcar and Cleveland. It uses data from the National Dental Epidemiology Programme 2019 survey of 5-year-old children¹.

The profile is designed to help local government and health services improve the oral health and wellbeing of children and tackle health inequalities.

In Redcar and Cleveland 213 5-year-olds (approximately 60.5% 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 Redcar and Cleveland, other local authorities in the North East and England.

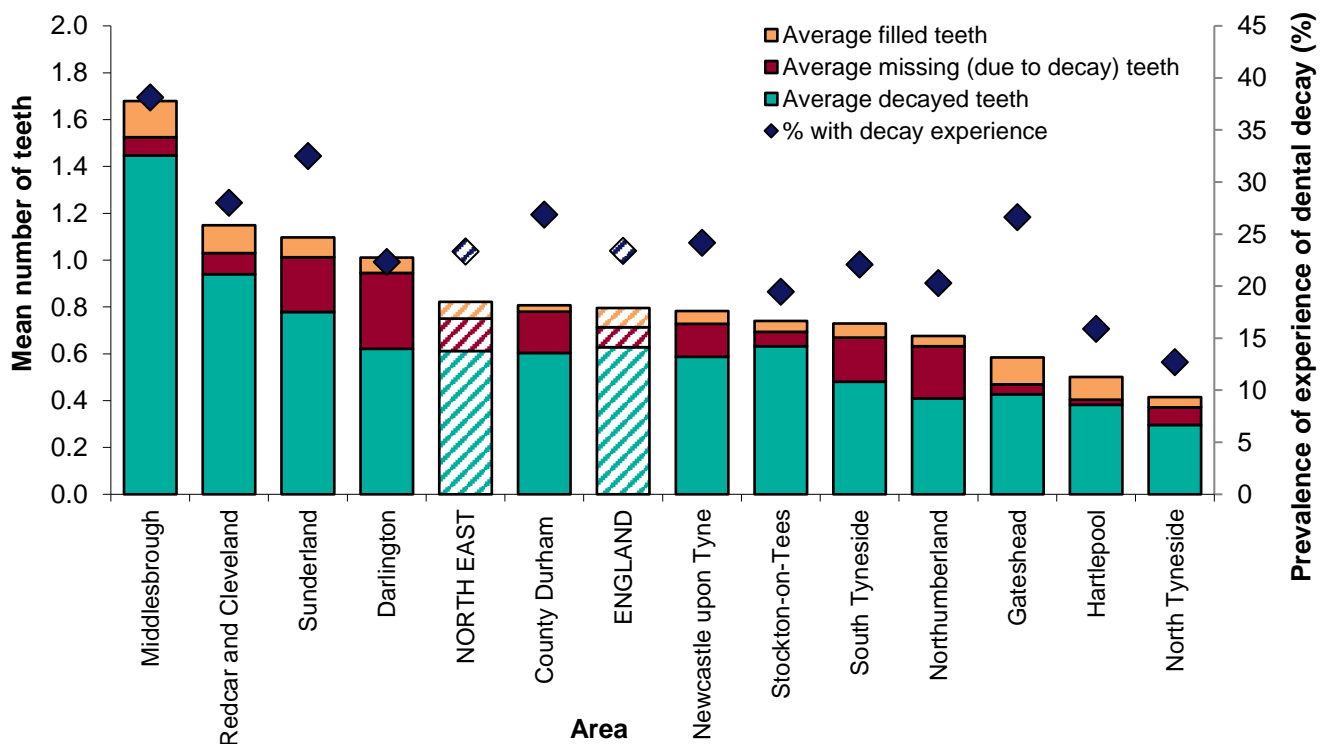


Table 1: Experience of dental decay in 5-year-olds in Redcar and Cleveland, other local authorities in the North East and England.

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)
Middlesbrough	38.1	1.7 (1.31 - 2.05)	4.4 (3.75 - 5.06)
Sunderland	32.5	1.1 (0.80 - 1.40)	3.4 (2.77 - 3.99)
Redcar and Cleveland	28.0	1.1 (0.78 - 1.51)	4.1 (3.23 - 4.98)
County Durham	26.8	0.8 (0.58 - 1.04)	3.0 (2.44 - 3.57)
Gateshead	26.6	0.6 (0.40 - 0.77)	2.2 (1.72 - 2.67)
Newcastle upon Tyne	24.2	0.8 (0.61 - 0.95)	3.2 (2.76 - 3.72)
ENGLAND	23.4	0.8 (0.78 - 0.81)	3.4 (3.36 - 3.44)
NORTH EAST	23.3	0.8 (0.75 - 0.89)	3.5 (3.32 - 3.72)
Darlington	22.3	1.0 (0.71 - 1.31)	4.5 (3.63 - 5.43)
South Tyneside	22.1	0.7 (0.46 - 1.00)	3.3 (2.42 - 4.18)
Northumberland	20.3	0.7 (0.48 - 0.87)	3.3 (2.71 - 3.96)
Stockton-on-Tees	19.5	0.7 (0.51 - 0.97)	3.8 (3.10 - 4.50)
Hartlepool	15.9	0.5 (0.29 - 0.71)	3.2 (2.25 - 4.06)
North Tyneside	12.7	0.4 (0.28 - 0.55)	3.3 (2.60 - 3.94)

Table 2. Measures of oral health among 5-year-olds in Redcar and Cleveland, it's statistical neighbours,ⁱ the North East and England.

	Redcar and Cleveland	Statistical neighbour within North East: Hartlepool	Statistical neighbour comparator 1: Barnsley	North East	England
Prevalence of experience of dental decay	28.0%	15.9%	39.6%	23.3%	23.4%
Mean number of teeth with experience of dental decay	1.1	0.5	1.6	0.8	0.8
Mean number of teeth with experience of decay in those with experience of dental decay	4.1	3.2	4.1	3.5	3.4
Mean number of decayed teeth in those with experience of dental decay	3.2	2.3	3.1	2.6	2.7
Proportion with active decay	25.1%	13.4%	34.7%	19.9%	20.4%
Proportion with experience of tooth extraction ⁱⁱ	3.0%	2.1%	5.5%	3.1%	2.2%
Proportion with dental abscess	2.5%	3.3%	1.9%	1.6%	1.0%
Proportion with teeth decayed into pulp	6.4%	3.2%	9.9%	4.0%	3.3%
Proportion with decay affecting incisors ⁱⁱⁱ	10.7%	3.3%	11.3%	5.6%	5.2%
Proportion with high levels of plaque present on upper front teeth ^{iv}	0.8%	0.0%	0.0%	2.2%	1.2%

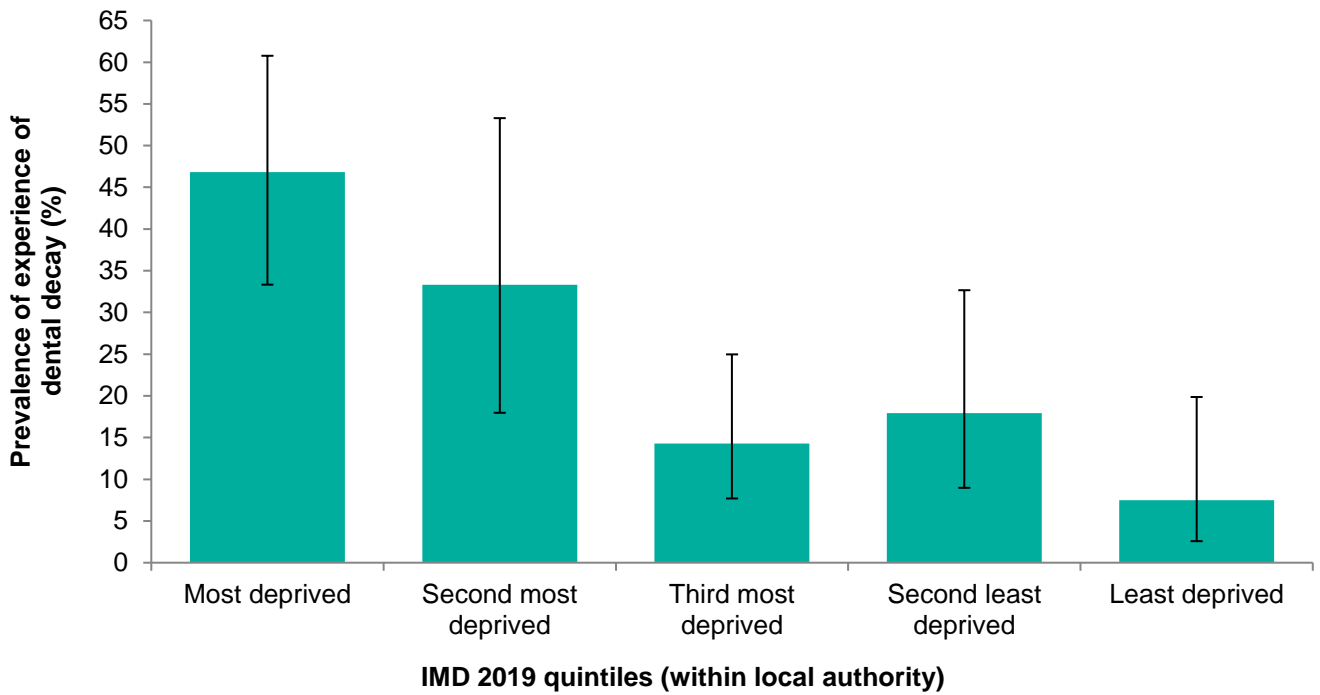
ⁱ generated by the children's services statistical neighbour benchmarking tool, the neighbour within the North East has "Very Close" comparator characteristics and the national neighbour 1 has "Extremely Close" comparator characteristics³.

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.

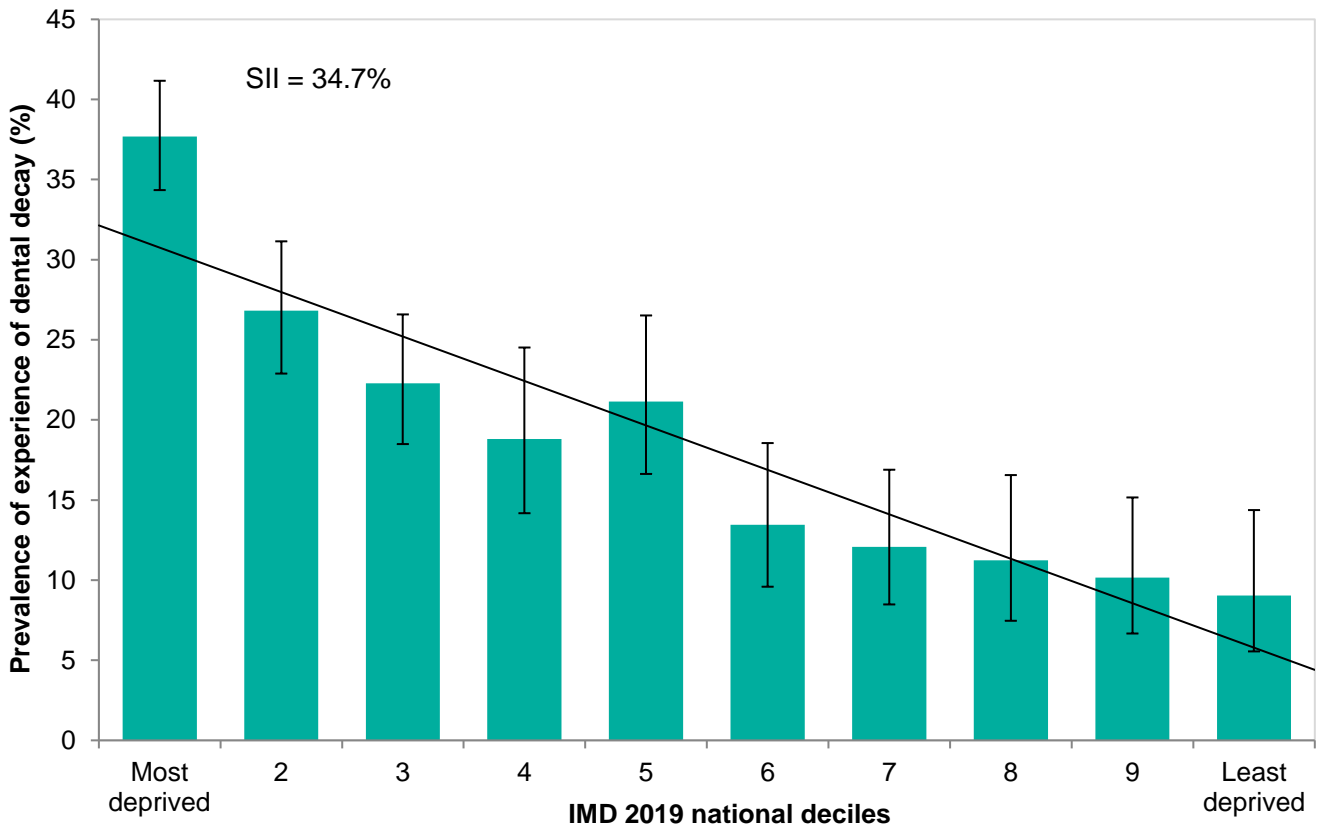
^{iv} indicative of poor tooth brushing habits.

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



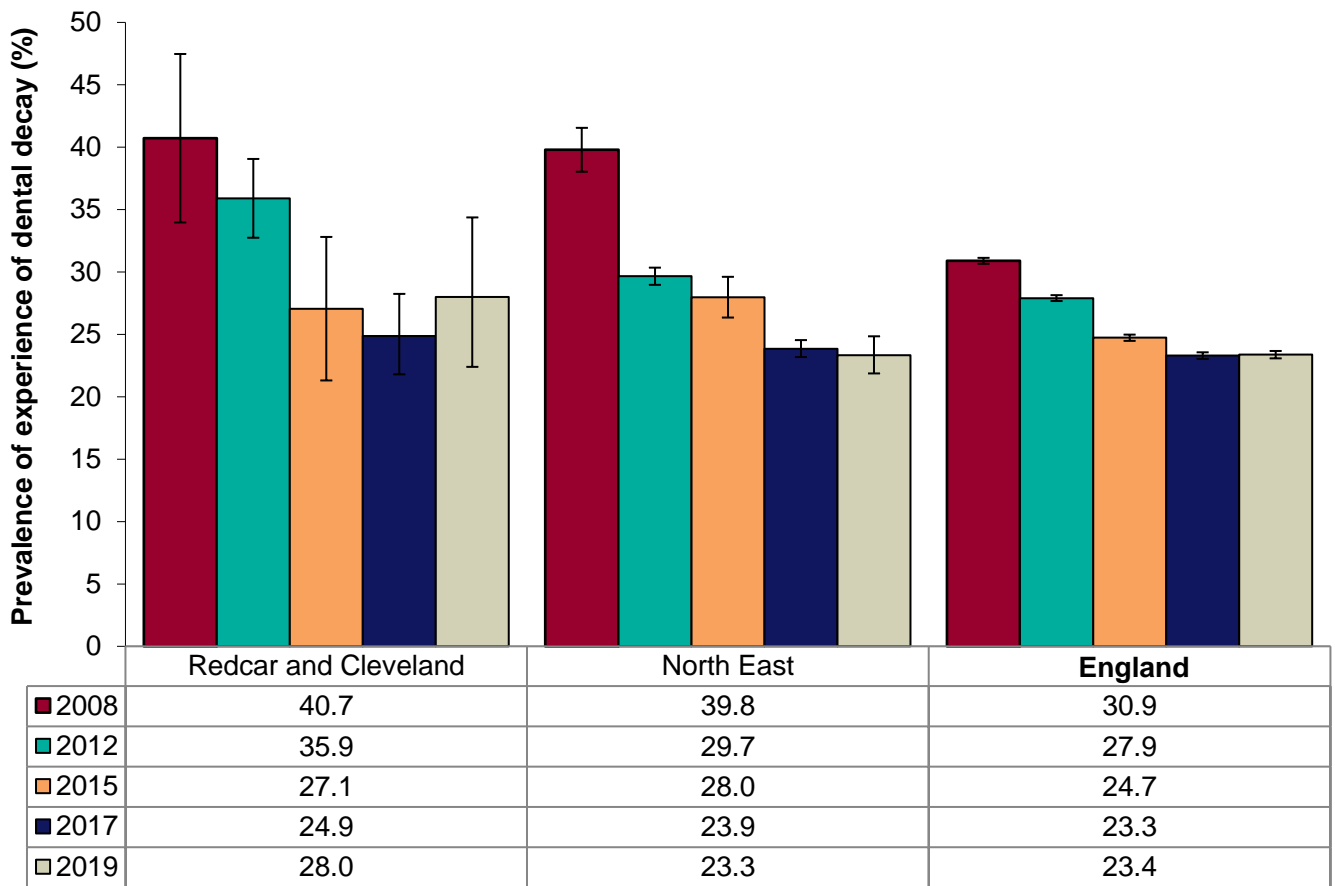
Error bars represent 95% confidence limits

Figure 3: Slope index of inequality in the prevalence of experience of dental decay in 5-year-olds in the North East.



Error bars represent 95% confidence limits

Figure 4: Prevalence of experience of dental decay in 5-year-olds in Redcar and Cleveland, the North East and England, by year.

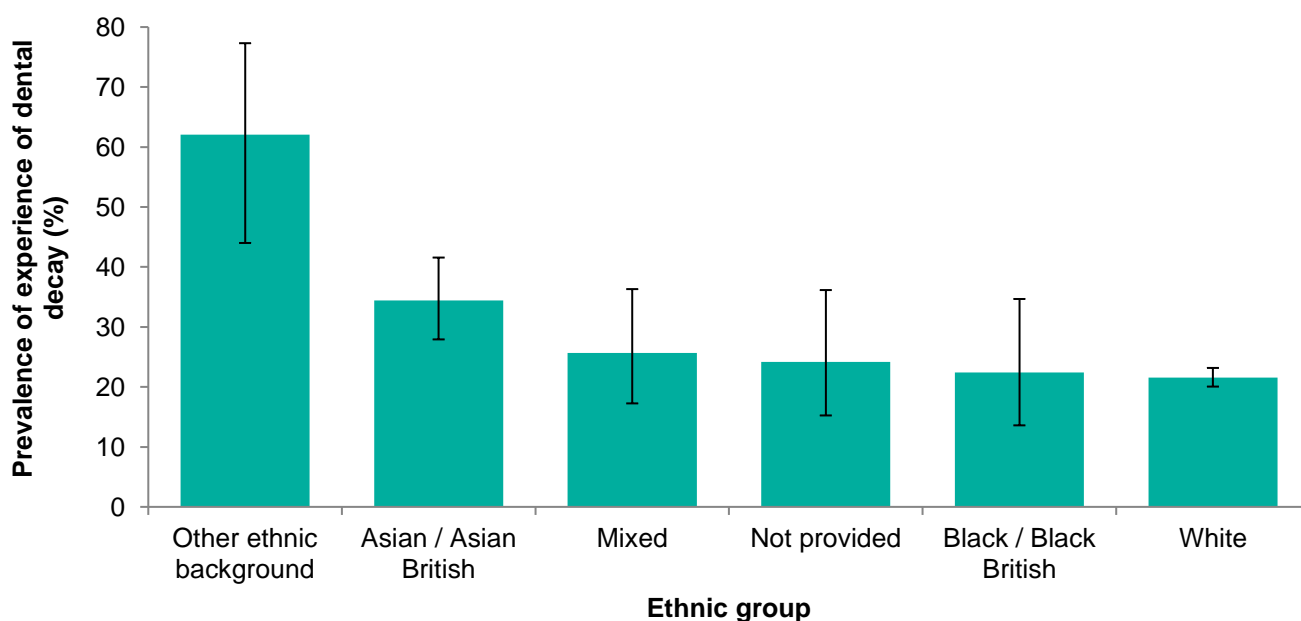


Error bars represent 95% confidence limits

Table 3: Experience of dental decay in 5-year-olds in the North East, by ethnic group.

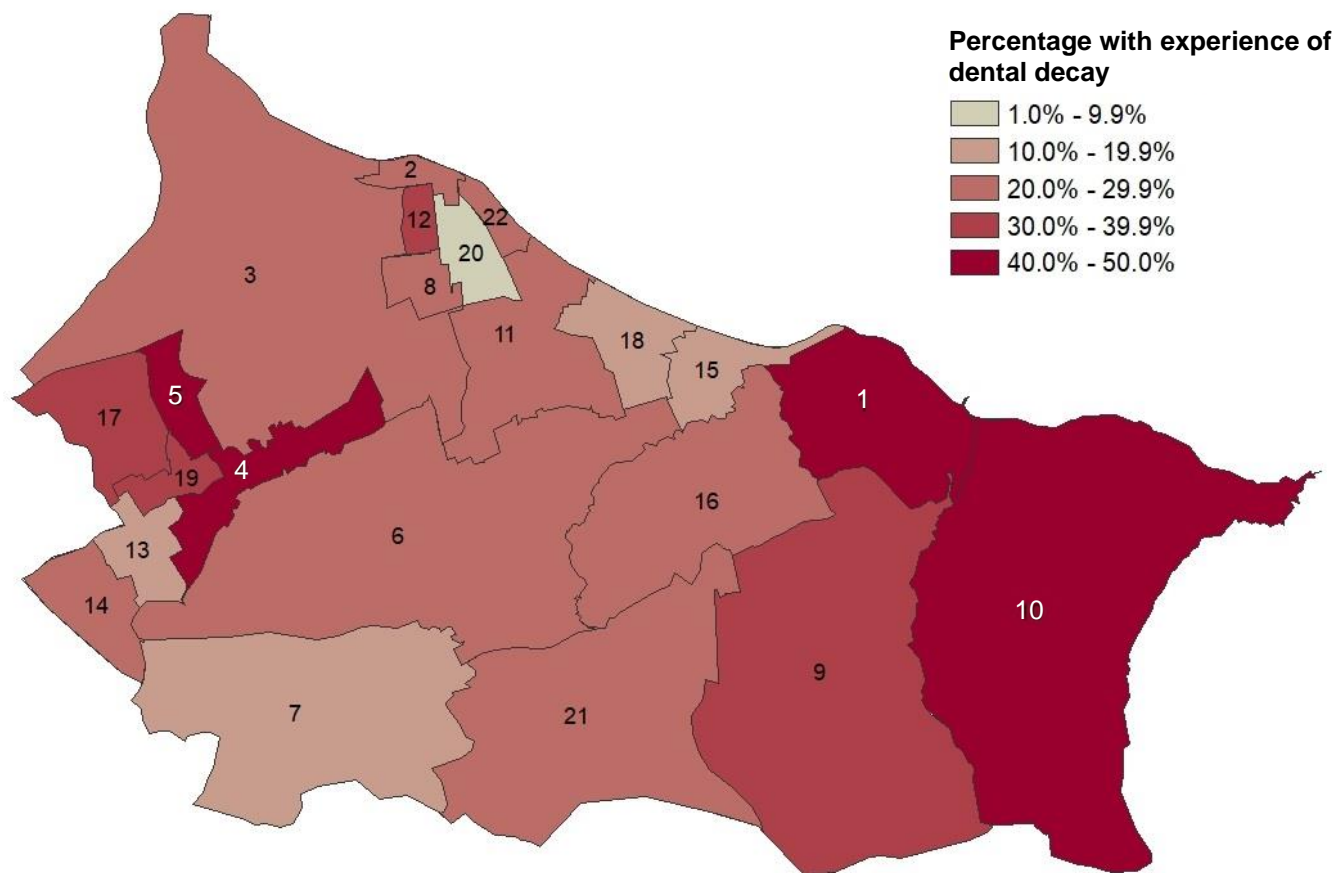
Ethnic group	Number of children examined (N)	Prevalence of experience of dental decay (%)	Mean number of teeth with experience of dental decay among children with any experience of dental decay n (95% CI)	Prevalence of dental decay affecting incisors (%)
Other ethnic background	29	62.1	4.8 (3.23 - 6.33)	27.6
Asian / Asian British	183	34.4	3.5 (2.87 - 4.21)	13.1
Mixed	78	25.6	3.6 (2.51 - 4.69)	5.1
Not provided	62	24.2	2.5 (1.70 - 3.23)	9.7
Black / Black British	58	22.4	3.1 (1.34 - 4.82)	1.7
White	2,689	21.6	3.5 (3.28 - 3.72)	4.8
North East	3,099	23.3	3.5 (3.32 - 3.72)	5.6

Figure 5: Prevalence of experience of dental decay in 5-year-olds in the North East, by ethnic group.



Error bars represent 95% confidence limits

Figure 6: Prevalence of experience of dental decay in 5-year-olds in Redcar and Cleveland, by ward, 2017.



Key	Label
1	Brotton (46.0%)
2	Coatham (27.3%)
3	Dormanstown (26.6%)
4	Eston (42.3%)
5	Grangetown (50.0%)
6	Guisborough (25.9%)
7	Hutton (13.3%)
8	Kirkleatham (26.8%)
9	Lockwood (33.3%)
10	Loftus (42.9%)
11	Longbeck (21.6%)

Key	Label
12	Newcomen (32.4%)
13	Normanby (19.6%)
14	Ormesby (26.3%)
15	Saltburn (19.2%)
16	Skelton (21.1%)
17	South Bank (37.0%)
18	St Germain's (17.1%)
19	Teesville (32.4%)
20	West Dyke (9.8%)
21	Westworth (25.8%)
22	Zetland (26.5%)

Summary

In Redcar and Cleveland average levels of dental decay are similar to the average for England. Within Redcar and Cleveland, the highest levels of experience of dental decay are clustered around the Brotton, Loftus, Eston and Grangetown wards.

The small sample size means it is not possible to provide information at ward level using 2019 data. 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: https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment_data/file/773332/Commissioning_High_Quality_Information_to_Support_Oral_Health_Improvement.pdf

5. Public Health England (2014). Local authorities improving oral health: commissioning better oral health for children and young people [Online]. Available at: https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment_data/file/321503/CBOHMaindocumentJUNE2014.pdf

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

PHE publications gateway number: GW-1530

© Crown Copyright, 2021. You may re-use this information (not including logos) free of charge in any format or medium, under the terms of the Open Government Licence. To view this licence, visit www.nationalarchives.gov.uk/doc/open-government-licence