

# **Childsmile**

# **National Headline Data**

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# **Executive summary**

This report presents longitudinal headline data for the integrated Childsmile programme at a national level. Where appropriate, data are presented by NHS Board and the Scottish Index of Multiple Deprivation (SIMD).

## Childsmile Core - Nursery and School Supervised Toothbrushing

## Participating establishments

According to the data that are recorded on the Childsmile@HIC system, 1,541 pre-school
establishments and 565 primary schools were participating in the Childsmile Core toothbrushing
programme in Scotland during the 2021/22 academic year (Figs 1 & 2, p.3 and Tab 1 p. 4). For
comparison, in the 2020/21 academic year, 218 pre-school establishments and 103 primary
schools were recorded as participating.

## Childsmile Nursery & School - Fluoride varnish application

## Participating establishments

 440 pre-school establishments and 566 primary schools were participating in the Childsmile Nursery and School fluoride varnish application (FVA) programme in Scotland during the 2021/22 academic year (Fig 3, p.5 and Tab 2, p.6). This is a large increase in comparison with 2020/21 figures (51 pre-school establishments and 70 primary schools).

## Establishments selected for restarting FVA

- NHS Boards selected a total of 453 pre-school establishments (17.1% of all pre-school establishments) and 536 primary schools (26.8% of all schools) for FVA restart visits in the 2021/22 academic year. 440 (97.1) pre-school establishments and 566 (105.6%) primary schools were involved in FVA visits by the end of the academic year (Tabs 3 & 4, p. 7-8).
- In the 2021/22 academic year, restart rates varied between boards. For nurseries the range was 0% to 112.9% and for schools 0% to 125.0% (Tabs 3 & 4, p. 7-8).

## Consent rates

- During the 2021/22 academic year, the average consent rate for Scotland, as a percentage of targeted children, was 77% among nursery children (down by 8.1% in comparison with the 2019/20 figure) and 76.5% for school children (down by 10.6% in comparison with the 2019/20 figure) (Figs 4 & 5, p. 9-10).
- In the 2021/22 academic year consent rates varied between boards. For nurseries the range was from 0% to 98%, and for schools 0% to 94%, of targeted children (Tabs 5 & 6, p. 11-12).

## Fluoride varnish application rates

- 58% of targeted nursery children received at least one fluoride varnish application in the 2021/22 academic year, which is 3% lower than in 2019/20 (Fig 4, p.9). 65% of targeted school children received at least one fluoride varnish application in the 2021/22 academic year which is 13% lower than in 2019/20 (Fig 5, p.10).
- Variation in fluoride varnish application rates was evident across boards, the percentage of targeted children receiving *at least one* fluoride varnish application within 2021/22 academic year ranged from 0% to 68% in nurseries and from 0% to 86% in schools (Tabs 5 & 6, p. 11-12).
- 16% of targeted nursery children received *two or more* fluoride varnish applications in the 2021/22 academic year (1% increase in comparison with the 2019/20 proportion) (Fig 4, p. 9). 31% of targeted school children received *two or more* fluoride varnish applications in the 2021/22 academic year (6% increase in comparison with the 2019/20 proportion) (Fig 5, p. 10). As the Childsmile programme recovers from the COVID-19 pandemic, NHS Boards are adopting a more focused, targeted approach with the Nursery and School Fluoride Varnishing component to ensure that coverage reaches children from the most deprived (20%) of areas in their NHS Board.
- The percentage of children receiving *two or more* fluoride varnish applications ranged from 0% to 40% for nurseries, and from 0% to 53% for primary schools across NHS Boards (as a percentage of targeted children, 2021/22 academic year) (Tabs 5 & 6, p.11-12).

SIMD distribution of the proportion of nursery, and primary school, children who received a fluoride varnish application – as a % of all nursery, and primary school, children who received fluoride varnish (described for here for SIMD 1 only):

- 37% of nursery children and 40% of school children who received at least one fluoride varnish application within 2021/22 academic year were from the most deprived SIMD 1 category (health board (local) SIMD 2016) (Figs 6 & 7, p.14-15).
- Similarly, 36% of nursery children and 37% of school children who received *two or more* fluoride varnish applications were from the most deprived SIMD 1 category (health board (local) SIMD 2016) (Figs 6 & 7, p.14-15).

SIMD distribution of the proportion of nursery aged children, and P1-P4 school children, who received fluoride varnish – as a % of all nursery aged children, and all P1-P4 school, children residing in the SIMD 1 category.

- 16% of the whole population of 3-4-year-old nursery school children residing in SIMD 1 quintile received *at least one* fluoride varnish application in the 2021/22 academic year. 4% received *two or more* fluoride varnish applications (health board (local) SIMD 2016) (Figs 8 & 9, p.16-17 and Tab 8, p. 20).
- 30% of the whole population of P1-P4 aged children residing in SIMD 1 quintile received at least one fluoride varnish application in the 2021/22 academic year. 14% received two or more fluoride varnish applications (health board (local) SIMD 2016) (Fig 10 & 11, p.18-19 and Tab 8, p. 20).

#### **Childsmile Practice**

## Child referral and Dental Health Support Worker contact

- 8,307 children in Scotland were recorded on the Childsmile@HIC system as referred to a Dental Health Support Worker in the 2021/22 financial year a 96% increase in comparison with the number in 2019/20 (377 children) (Fig 14, p.24).
- 9,086 children were successfully contacted by a Dental Health Support Worker in the 2021/22 financial year a increase of 96% in comparison with 2019/20 (388 children) (Fig 14, p.24).
- In the 2021/22 financial year the majority of children were referred to Dental Health Support Workers by a Health Visitor (6,285 children); 1,089 children were via an 'Other' source; 182 children from a dentist; 71 children via Clinic; 272 children by NHS-24; 51 children were self-referrals; and for 357 children the type of referral was not specified (Fig 15, p.26).
- There were 9,010 children with at least one kept DHSW appointment in the 2021/22 financial year; 89 families who refused Childsmile; 89 families that could not be contacted; and for 321 families the end result was an 'FTA / Not at home' (Fig 16, p.27).
- Of the 9,010 children with at least one kept appointment; 7,965 had their first kept appointment within the financial year; 1,467 children had their second kept appointment; and 467 children had their third (or greater) kept DHSW appointment within 2021/22 (Fig 17, p.28).

## **Dental Practice engagement**

 86% (n=900) of independent contractor General Dental Service practices were delivering Childsmile interventions in the 2021/22 financial year (the proportion in the previous 2020/21 financial year – was 74% (768) (Tab 12, p.29).

## Delivery in dental practice

- The proportions of 0-2-year-old registered with an NHS dentist (n=32,447) receiving toothbrushing / dietary advice in practice in the 2021/22 financial year was higher than in the previous year. The proportions of the registered 0-2-year-olds receiving toothbrushing instruction increased by 46% and those receiving dietary advice increased by 17% (Fig 18, p.30).
- The proportions of 3-5-year-old registered with an NHS dentist (n=124,913) receiving toothbrushing / dietary advice in practice in the 2021/22 financial year were both 17% higher than in 2020/21 (Fig 19, p.30).
- During the 2021/22 financial year, 55% of 0-2-year-old children registered with an NHS dentist in Scotland (NHS Board range: 13%-78%), and 21% of 3-5-year-old children registered with an NHS

dentist in Scotland received *toothbrushing instruction* in practice (NHS Board range: 6%-30%) (Tabs 13 & 14, p.31-32). The proportions of children (and the ranges by NHS Board) in both these age groups receiving *dietary advice* were the same as those receiving toothbrushing instruction (Tabs 13 & 14, p.31-32).

- The proportion of 2-5-year-old children registered with an NHS dentist who received at least one fluoride varnish application in practice in the 2021/22 financial year increased by 15% in comparison with the 2020/21 proportion, while the proportion of those who received two or more fluoride varnish applications increased by 2% (Fig 21, p.34).
- In the 2021/22 financial year, 19% of 2-5-year-old children registered with an NHS dentist (NHS Board range: 10%-30%) received at least one fluoride varnish application in practice and 3% received two or more fluoride varnish applications (children who had received at least one fluoride varnish application within the reporting period and who had also received another fluoride varnish application in the 12 months prior to that application), NHS Board range: 0%-7% (Tab 15, p.35).
- The proportions of 2-5-year-old children registered with an NHS dentist (n=144,049) who received at least one fluoride varnish application in practice increased across the SIMD categories (e.g., from 14% in the most deprived quintile to 24% in the least deprived quintile) and for those receiving one only FVA (e.g., from 13% of the most deprived and 20% of the least deprived children) Similarly, proportions of 2–5-year-old children registered with an NHS dentist who received two or more fluoride varnish applications rose slightly across the SIMD categories (e.g., from 2% in the most deprived quintile and from 4% in the least deprived quintile) (Fig 22, p.36).

## Total number of fluoride varnish applications in nursery, school and practice settings

• In 2021/22, 15,154 fluoride varnish applications were delivered in nursery settings, 66,102 in school settings and 29,554 in dental practice settings (Tab 16, p.37). There was a 76% increase in the numbers of fluoride varnish applications delivered in dental practice settings and a 99.9% rise in the number of fluoride varnish applications in school settings when compared with the same numbers from the previous year, 2020/2021. There was no FVA activity in Childsmile nurseries in 2020/21 but a comparison with the previous year 2019/20 shows a 58% decrease in the number of fluoride varnish applications in this setting.

## **Childsmile Workforce**

 In the 2021/22 financial year two Childsmile training courses were run, and five Dental Health Support Workers and 15 Extended Duty Dental Nurses were trained (Fig 24, p.39). For comparison, in the 2020/21 financial year one course ran with four Dental Health Support Workers and no Extended Duty Dental Nurses trained.

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## **Abbreviations**

## List of abbreviations of NHS Board names

AA Ayrshire & Arran

**B** Borders

**DG** Dumfries & Galloway

**F** Fife

FV Forth ValleyG Grampian

GGC Greater Glasgow & Clyde

H HighlandLa LanarkshireLo LothianO OrkneyS Shetland

WI Western Isles

Tayside

Sco Scotland

Т

## Other abbreviations

**ASN** Additional Support Needs

CHSP-PS Child Health Surveillance Programme Pre-School system

DHSW
Dental Health Support Worker
EDDN
Extended Duty Dental Nurse
FVA
Fluoride Varnish Application
GDS
General Dental Services
HIC
Health Informatics Centre
ISD
Information Services Division
NES
NHS Education for Scotland

Primary school year groups (e.g., P4 – Primary 4)

**PCDS** Primary Care Dental Services

PDS Public Dental Service
PHS Public Health Scotland

SDR Statement of Dental Remuneration
SIMD Scottish Index of Multiple Deprivation

## Introduction

This report presents headline monitoring data for the integrated Childsmile programme at a national level when the programme was recovering from the COVID-19 pandemic which began in March 2020. Where appropriate, data are presented by NHS Board and the Scottish Index of Multiple Deprivation (SIMD).

Childsmile National Headline Data reports are usually produced and circulated once a year. However, the report for 2019-2020 was compiled but not distributed in 2020, and similarly the 2020-2021 activity data were collected but not reported in 2021. In both cases this was because of the effects of the COVID-19 pandemic on the activities of the Childsmile programme and the evaluation of this programme.

Data for the Childsmile Core (Nursery and School Supervised Toothbrushing), Nursery and School sections of this report correspond to the academic year (for the purposes of this report an academic year is from 1 July to 30 June). Data for Childsmile Practice are given by financial year (1 April to 31 March).

This report covers the following periods:

- Childsmile Core and Childsmile Nursery & School: 2017/18 to 2021/22 academic year (data from the Health Informatics Centre [HIC])
- Childsmile Practice DHSW data: 2017/18 to 2021/22 financial year (data from HIC)
- Childsmile Practice PCDS data: 2017/18 to 2021/22 financial year (data from Public Health Scotland [PHS])
- Childsmile Workforce training figures: 2017/18 to 2021/22 financial year (data from NHS Education for Scotland [NES])

## Data availability

The data covering the most recent five-year period are presented in each report. For earlier data, please refer to previously published reports (available at: <a href="http://www.child-smile.org.uk/professionals/research-and-evaluation/monitoring reports.aspx">http://www.child-smile.org.uk/professionals/research-and-evaluation/monitoring reports.aspx</a>) or contact the Childsmile evaluation team.

## Negative toothbrushing consent

In August 2016 positive consent (opt-in) to the toothbrushing segment of the Childsmile programme was replaced with negative consent (opt-out). Namely, all children attending a toothbrushing establishment are considered to have consented to toothbrushing unless the parent indicates that they do not wish their child to take part. Consequently, currently there is no individual level toothbrushing data being recorded on the Childsmile@HIC system.

## Delivery of fluoride varnish in NHS Orkney, NHS Shetland and NHS Western Isles

There are different arrangements for delivery of fluoride varnish in nurseries and schools in NHS Orkney, NHS Shetland, and NHS Western Isles. From January 2011 **all** children in nurseries and schools up to P2 (inclusive) are targeted to receive fluoride varnish through Childsmile Nursery/School components of the programme, whereas children in school years P3 to P7 are followed up through Childsmile Practice. The monitoring of these P3 to P7 children started in January 2011 in NHS Orkney, April 2011 in NHS Shetland, and August 2011 in NHS Western Isles.

Since the incorporation of Childsmile Practice interventions into the SDR on 1 October 2011, data from GP17 forms that were recording the delivery of fluoride varnish to P3-P7 children through Childsmile Practice (i.e., in NHS Orkney, NHS Shetland and NHS Western Isles) have been unavailable.

## Measure of deprivation

The measure of deprivation used throughout this report is the Scottish Index of Multiple Deprivation (SIMD) population-weighted quintile (a quintile describes a fifth of the population), with SIMD 1 being the most deprived quintile and SIMD 5 the least deprived quintile.

SIMD2020v2 was unavailable at the time of the current data snapshot for data from the Heath Informatics Centre (30<sup>th</sup> September 2022) so SIMD 2016 is used in the relevant tables of this report. SIMD2020v2 will be used for HIC data in subsequent reports. SIMD2020v2 is used with the data supplied by PHS. "NHS Board (local) SIMD" is used for Childsmile Nursery and School and "National

(Scotland) SIMD" for Childsmile Practice (to be consistent with the SDR payment arrangements with General Dental Services [GDS] practices).

## Child allocation to NHS Board

For Childsmile Nursery and School: Children are linked to a nursery/school and the nursery/school is assigned to an NHS Board. However, the child's home postcode is used to assign the child to a SIMD quintile (e.g., this means if a child goes to school in NHS Grampian but lives in NHS Highland, they will be included in the NHS Grampian data, but their SIMD quintile will be for NHS Highland).

For Childsmile Practice: Child's home postcode is used to determine NHS Board. This procedure is in line with PHS reporting of dental statistics. Please note the child may reside in the NHS Board but have attended a dental practice anywhere in Scotland.

## Scottish NHS Boards boundary 2014

On 1st April 2014, NHS Board boundaries were changed to align with those of local authorities. The purpose of the change is to help NHS Boards and local authorities work closer together in the provision of care in the local community.

The data are reported using the 2014 NHS Board configuration except for the 2017/18 Childsmile Practice PCDS data.

## Scottish NHS Boards boundary 2018

There was a slight change of the NHS Board boundaries in February 2018. Namely, the boundaries for NHS Fife and NHS Tayside changed following The Fife Council Area and Perth and Kinross Council Area Boundaries Amendment Order 2017.

The 2018/19 Childsmile Practice PCDS data are reported using the 2018 NHS Board configuration.

## Scottish NHS Boards boundary 2019

There was further minor change to the NHS Board boundaries in April 2019. Namely, the boundaries for NHS Greater Glasgow & Clyde NHS Lanarkshire changed following The Glasgow City Council Area and North Lanarkshire Council Area (Cardowan by Stepps) Boundaries Amendment Order 2018

The 2019/20-2021/22 Childsmile Practice PCDS data are reported using the 2019 NHS Board configuration.

## Population baselines

The population baselines in this report are based on Small Area Population Estimates as at 30 June within each reporting year, e.g., the 2021/22 data is based on Small Area Population Estimates as at 30 June 2019. The population estimates are provided by the National Records of Scotland (NRS; <a href="http://www.nrscotland.gov.uk">http://www.nrscotland.gov.uk</a>). Population estimates can be found online at: <a href="https://www.opendata.nhs.scot/dataset/population-estimates">https://www.opendata.nhs.scot/dataset/population-estimates</a>.

## Changes to the Statement of Dental Renumeration (SDR) from February 2022

The PCDS data provided by PHS are given by financial year (1st April to 31st March) and are based on treatments *undertaken and paid* during that period. Changes to payment codes in the SDR took effect on 01 February 2022 (with no overlap with the previous codes) and these changes altered the data available to PHS. However, PHS were able to provide data for the full financial year that matched the age groups used in previous reports and these groupings are used in this document. Subsequent reports may be based on the new payment codes when more data are available.

## **Definitions**

Please refer to Appendix 1 which shows definitions for terms used throughout this report.

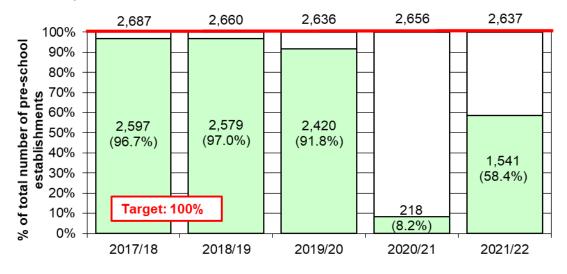
# Childsmile Core - Nursery and School Supervised Toothbrushing

Please refer to Appendix 1 for definitions of terms used throughout this report.

Childsmile Core data are presented by academic year.

## Participating establishments

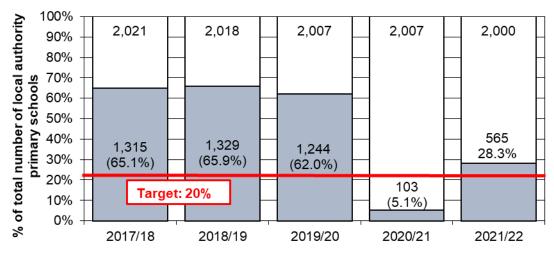
According to the data that is recorded on the Childsmile@HIC system, 1,541 pre-school establishments and 565 primary schools were participating in the Childsmile Core toothbrushing programme in Scotland during the 2021/22 academic year.



□Total number of pre-school establishments

□Pre-school establishments participating in toothbrushing programme

Figure 1: Nurseries participating in toothbrushing programme in Scotland academic year, 2017/18- 2021/22



□Total number of local authority primary schools

■Primary schools participating in toothbrushing programme

Figure 2: Primary schools participating in toothbrushing programme in Scotland academic year, 2017/18-2021/22

Table 1 Pre-school educational establishments and primary schools participating in Childsmile Core programme (as a % of total number of pre-school establishments / LA primary schools) by NHS Board – Scotland, 2021/22 academic year.

Health Board	Total number of pre-school establishments	partici	stablishments pating in ng programme	Total number of LA primary	Primary schools participating in toothbrushing programme			
	establishments	n	% of total	schools	n	% of total		
AA	154	112	72.7%	130	57	43.8%		
В	70	64	91.4%	59	11	18.6%		
DG	84	24	28.6%	97	20	20.6%		
F	170	0	0.0%	133	0	0.0%		
FV	124	128	103.2%	104	82	78.8%		
G	331	182	55.0%	239	51	21.3%		
GGC	472	68	14.4%	302	90	29.8%		
Н	265	82	30.9%	245	23	9.4%		
La	298	285	95.6%	244	136	55.7%		
Lo	400	402	100.5%	224	11	4.9%		
0	21	19	90.5%	21	17	80.9%		
S	23	23	100.0%	27	27	100%		
Т	204	131	64.2%	154	20	12.9%		
WI	21	21	100.0%	21	20	95.2%		
Total	2637	1541	58.4%	2,000	565	28.2.0%		

## LA - local authority

- 1) Pre-school establishments / primary schools participating in the toothbrushing programme (Childsmile Core) are those pre-school establishments that had at least one toothbrushing monitoring contact recorded on the Childsmile@HIC system within the period July 2021 to June 2022.
- 2) The total numbers of pre-school establishments were provided by the Childsmile teams in NHS Boards up 30<sup>th</sup> July 2022 (where data was unavailable figs from November 2021 were used).
- 3) Percentages that exceed 100 are due to a mismatch between figures provided by Childsmile teams and those recorded on the HIC system, i.e. Childsmile teams have underestimated the number of establishments providing toothbrushing in their area.
- 4) Total numbers of local authority primary schools as at July 2022: were obtained here: <a href="https://www.gov.scot/publications/school-contact-details/">https://www.gov.scot/publications/school-contact-details/</a>.
- 5) The target is to offer toothbrushing programme to all nurseries (100%) and at least 20% of P1 and P2 classes of schools, those situated in areas with the highest level of need of NHS Boards.
- 6) Data for NHS Boards will be partial, if not all of the monitoring contacts with the establishments participating in the toothbrushing programme were entered onto the Childsmile@HIC system. Percentages that exceed 100% in column four are most likely due to underreporting in the baseline figures returned NHS Boards

# **Childsmile Nursery & School**

Please refer to Appendix 1 for definitions of terms used throughout this report.

Childsmile Nursery & School data are presented by academic year.

Reporting unique children from a record-based system: As HIC uses a system based on linked records (i.e., consent constitutes one record and all activity linked with that consent is recorded) a child may have more than one record for any reporting period. For example, a child may be listed on more than one class list or have completed more than one consent form. This affects the data completeness/consistency, e.g., the Scotland total, which reports each unique child, may not be the sum of the NHS Board data. It has not been possible to estimate and report the extent to which this affects the data in this report.

Children under three years of age: The Childsmile Nursery programme includes children of three years and upwards in all targeted nurseries. Some NHS Boards, but not all, offer fluoride varnish to a small number of two-year-old children attending targeted nurseries. To ensure population rates are comparable across all NHS Boards, data for two-year-old children, namely records of children who were under three years old at the end of February of each reporting year, are excluded from the Childsmile Nursery & School section.

Age filter for Childsmile Nursery & School data: A new age filter has been applied when reporting Childsmile Nursery & School since 2016/17. The new age filter for reporting Nursery (3-4 years old), P1-P2 (5-6 years old) and P1-P4 (5-8 years old) data is based on the individual child's date of birth, rather than on class lists uploaded onto the Childsmile@HIC system, as it was the case before. Consequently, the 2016/17-2021/22 data for Nursery, P1-P2 and P1-P4 are not directly comparable with the previous years' data.

The effect of the SARS-Cov-2 COVID-19 pandemic on the FV activities of the Childsmile programme in the years 2020-2022 can clearly be seen in the graph below.

## Participating establishments

In the 2021/2022 academic year, 440 nurseries and 566 primary schools were participating in the fluoride varnish programme.

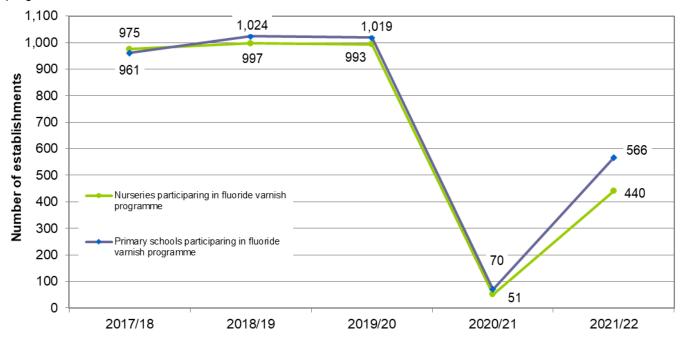


Figure 3: Nurseries and primary schools participating in fluoride varnish programme in Scotland, 2017/18-2021/22 academic year

The breakdown by NHS Board is shown in the table below:

Table 2: Numbers of nurseries and primary schools participating in fluoride varnish programme – by NHS Board, 2017/18-2021/22 academic year.

NHS	Number	of partic	ipating n	urseries		Nun	nber of pa	rticipating	primary	schools
Board		_	_	_	_	_	_	_	_	_
	17/18	18/19	19/20	20/21	21/22	17/18	18/19	19/20	20/21	21/22
AA	38	57	57	0	24	50	75	72	0	30
В	21	22	22	1	4	25	24	23	1	5
DG	11	10	10	0	0	11	10	11	0	0
F	39	39	39	0	0	46	46	46	0	0
FV	39	39	38	0	17	36	36	41	0	27
G	148	121	120	0	35	82	112	117	1	46
GGC	120	149	150	49	124	146	154	154	64	144
Н	96	95	95	1	36	84	85	83	2	42
La	268	271	271	0	130	255	256	255	1	134
Lo	78	78	76	0	3	106	106	99	1	65
0	21	21	21	0	20	19	19	19	0	19
S	22	23	22	0	23	27	27	26	0	28
Т	50	49	49	0	24	51	51	51	0	25
WI	24	23	23	0	0	23	23	22	0	1
Scotland	975	997	993	51	440	961	1024	1019	70	566

## NOTES:

1) NHS Boards based on the boundaries as at 1st April 2014.

Table 3: The number of nurseries targeted by each NHS Board for FVA during the 2021/22 academic year and the number of nurseries participating in fluoride varnish programme at the end of that year, by NHS Board.

NHS Board	Total Number of Pre-School Establishments	Numb	per Targeted for FVA visit		ber Participating in FVA at End of Academic Year
		n	% of total	n	% of targeted
AA	154	23	14.9%	24	104.3%
В	70	9	12.9%	4	44.4%
DG	84	11	13.1%	0	0.0%
F	170	0	0.0%	0	0.0%
FV	124	17	13.7%	17	100.0%
G	331	31	9.4%	35	112.9%
GGC	472	129	27.3%	124	96.1%
Н	265	35	13.2%	36	102.9%
La	298	127	42.6%	130	102.4%
Lo	400	0	0.0%	3	0.0%
0	21	21	100.0%	20	95.2%
S	23	23	100.0%	23	100.0%
T	204	27	13.2%	24	88.9%
WI	21	0	0.0%	0	0.0%
Scotland	2637	453	17.2%	440	97.1%

- 1) Boards were asked to provide the number of nurseries and schools that they were planning to visit, or had already visited, in the academic year 2021/22 for FVA visits by 03 March 2021.
- 2) NHS Boards based on the boundaries as at 1st April 2014.
- 3) The total number of nurseries in each NHS Board was obtained directly from Childsmile Coordinators (where data was unavailable figs from November 2021 were used)
- 4) The number of nurseries targeted for FVA was obtained directly from Childsmile Coordinators in each NHS Health.
- 5) The number of nurseries participating in FVA visits was obtained from figures provided by HIC.

Table 4: The number of primary schools targeted by each NHS Board for FVA during the 2021/22 academic year and the number of primary schools participating in fluoride varnish programme at the end of that year,

by NHS Board.

NHS Board	Total Number of Primary Schools	Number Targe vis			cipating in FVA Visits f Academic Year			
		n	% of total	n	% of targeted			
AA	130	24	18.5%	30	125.0%			
В	59	10	16.9%	5	50.0%			
DG	97	11	11.3%	0	0.0%			
F	133	0	0.0%	0	0.0%			
FV	104	27	26.0%	27	100.0%			
G	239	40	16.7%	46	115.0%			
GGC	302	120	39.7%	144	120.0%			
Н	245	42	17.1%	42	100.0%			
La	244	128	52.5%	134	104.7%			
Lo	224	61	27.2%	65	106.6%			
0	21	20	95.2%	19	95.0%			
S	27	28	103.7%	28	100.0%			
T	154	24	15.6%	25	104.2%			
WI	21	1	4.8%	1	100.0%			
Scotland	2,000	536	26.8%	6.8% 566 105.6%				

- 1) Boards were asked to provide the number of nurseries and schools that they were planning to visit, or had already visited, in the academic year 2021/22 for FVA visits by 03 March 2021.
- 2) NHS Boards based on the boundaries as at 1st April 2014.
- 3) Total numbers of local authority primary schools as at July 2022: were obtained here: https://www.gov.scot/publications/school-contact-details/.
- 4) The number of primary schools participating in FVA visits was obtained from figures provided by HIC.

## Consent and fluoride varnish application rates

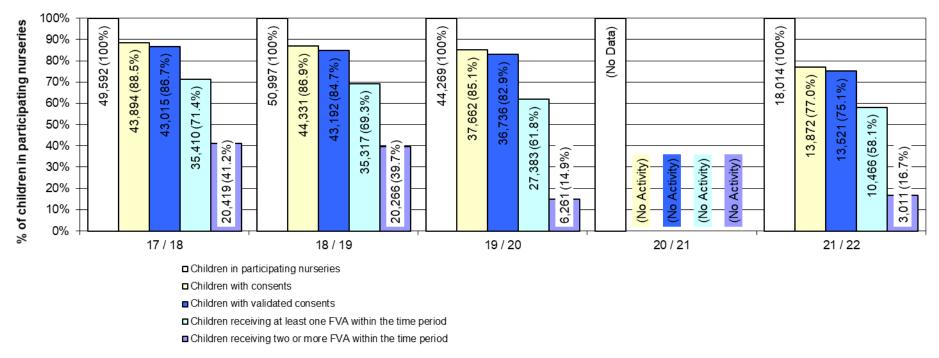


Figure 4: Nursery Consent and FVA rates (as a % of the total number of children in participating nurseries) – Scotland, 2017/18-2021/22 academic year FVA – fluoride varnish application.

- 1. Figure 4 presents children with consents, children with validated consents, children receiving at least one FVA and children receiving two or more FVAs as a % of the **total number** of children aged 3 years and over in participating nurseries.
  - For example, for 2019/2020 academic year the number of 3–4-year-old targeted children in participating nurseries equals 44,269 (100%), of those 37,662 (85.1%) children were consented for FVA. 36,736 (82.9%) had validated consents. 27,383 (61.8%) received at least one FVA and 6.621 (14.9%) children received two or more FVAs.
- 2. The total number of children in participating nurseries is derived from Childsmile@HIC system class lists using an additional date of birth-based age filter. There may be some underreporting of the number of children in participating nurseries due to inability to obtain all class lists in full, and over-reporting if children attend more than one targeted nursery.
- 3. A new age filter has been applied when reporting Childsmile Nursery & School 2016/17-2019/20 data. The new age filter for reporting Nursery (3-4 years old), P1-P2 (5-6 years old) and P1-P4 (5-8 years old) data is based on the individual child's date of birth, rather than on class lists uploaded onto the Childsmile@HIC system, as it was the case before. Consequently, the 2016/17–2021/22 data for Nursery, P1-P2 and P1-P4 are not directly comparable with the previous years' data.
- 4. The way the number of targeted children in participating nurseries/schools is calculated has been changed for the 2015/16–2021/22 data. Previously it had been based on an actual date of adding and a date for removing the child to/from a class list, which for 2015/16–2018/19 data was replaced with a session year and number (where Session 1 is the period July to December and Session 2 is January to June each year) of adding and removing the child to/from a class list. Due to this, the 2015/16–2021/22 proportions of children with consents, with validated consents and those receiving fluoride varnish is not directly comparable with the previous years' proportions.

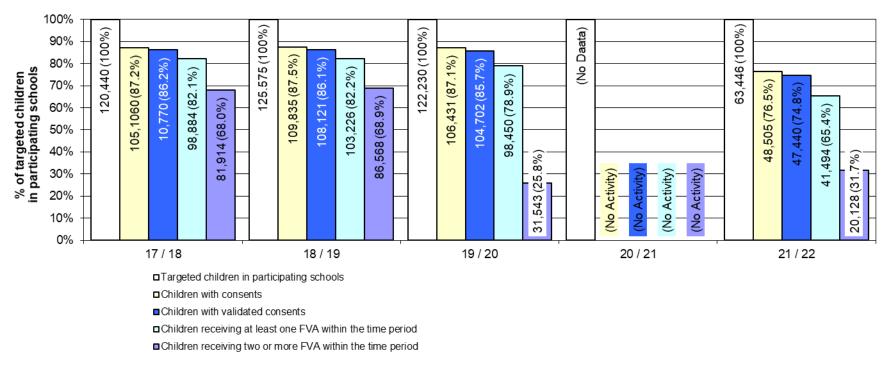


Figure 5: School Consent and FVA rates (as a % of the total number of targeted children in participating schools) – Scotland, 2017/18-2021/22 academic year FVA – fluoride varnish application.

- 1) Figure 5 presents children with consents, children with validated consents, children receiving at least one FVA and children receiving two or more FVAs as a % of the total number of targeted children in participating primary schools. "Targeted children" relates to the children in the primary years' groups reached by Childsmile teams in schools, e.g. Childsmile teams may have reached up to P5 classes and children in P1, P2, P3, P4 and P5 will be included.
  - For example, for 2019/2020 academic year the number of targeted children in participating primary schools equals 122,230 (100%), of those 106,431 (87.1%) children were consented for FVA, 104,702 (85.7%) had validated consents, 96,450 (87.9%) received at least one FVA and 31,543 (25.8%) children received two or more FVAs.
- 2) The number of targeted children in participating schools is derived from Childsmile@HIC system class lists. There may be some underreporting of the number of targeted children in participating schools due to inability to obtain all class lists in full.
- 3) The way the number of targeted children in participating nurseries/schools is calculated has been changed for the 2015/16–2021/22 data. Previously it had been based on an actual date of adding and a date for removing the child to/from a class list, which for 2015/16–2018/19 data was replaced with a session year and number (where Session 1 is the period July to December and Session 2 is January to June each year) of adding and removing the child to/from a class list. Due to this, the 2015/16–2021/22 proportions of children with consents, with validated consents and those receiving fluoride varnish is not directly comparable with the previous years' proportions.

Table 5: Targeting, consent and FVA rates - Childsmile Nursery, by NHS Board, 2021/2022 academic year

NHS Board	Population of 3–4- year-old children in NHS board (baseline)	Number of t nursery chil participating	dren in	Nursery children with consents		Nursery children with validated consents		Nursery children receiving at least one FVA			_	r children i one only F\	_	Nursery children receiving two or more FVAs		
	P	Т	% of P	С	% of T	n	% of T	n	% of T	% of C	n	% of T	% of C	n	% of T	% of C
AA	6,895	1,222	17.7%	858	70.2%	819	67.0%	624	28.4%	40.4%	347	28.4%	40.4%	277	22.7%	32.3%
В	2,173	166	7.6%	139	83.7%	135	81.3%	114	45.2%	54.0%	75	45.2%	54.0%	39	23.5%	28.1%
DG	2,635	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0.0%	0	0.0%	0.0%	0	0.0%	0.0%
F	7,364	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0.0%	0	0.0%	0.0%	0	0.0%	0.0%
FV	5,949	805	13.5%	791	98.3%	780	96.9%	672	44.6%	45.4%	359	44.6%	45.4%	313	38.9%	39.6%
G	12,111	1,303	10.8%	1,001	76.8%	982	75.4%	759	40.1%	52.1%	522	40.1%	52.1%	237	18.2%	23.7%
GGC	23,869	5,279	22.1%	3,917	74.2%	3,784	71.7%	2777	52.4%	70.6%	2,764	52.4%	70.6%	13	0.2%	0.3%
Н	5,718	1,063	18.6%	881	82.9%	861	81.0%	707	28.2%	34.1%	300	28.2%	34.1%	407	38.3%	46.2%
La	14,006	6,024	43.0%	4,563	75.7%	4,471	74.2%	3470	32.4%	42.7%	1,949	32.4%	42.7%	1,521	25.2%	33.3%
Lo	18,267	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0.0%	0	0.0%	0.0%	0.0%	0.0%	0.0%
0	417	406	97.4%	359	88.4%	352	86.7%	306	34.7%	39.3%	141	34.7%	39.3%	165	40.6%	46.0%
S	471	410	87.0%	393	95.9%	381	92.9%	279	68.0%	71.0%	279	68.0%	71.0%	0	0.0%	0.0%
T	7,807	1,336	17.1%	970	72.6%	956	71.6%	758	53.8%	74.1%	719	53.8%	74.1%	39	2.9%	4.0%
WI	478	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0.0%	0	0.0%	0.0%	0	0.0%	0.0%
Sco	108,160	18,014	16.7%	13,872	77.0%	13,521	75.1%	10,466	58.1%	53.7%	7,455	41.4%	53.7%	3,011	16.7%	21.7%

- 1) Table 5 presents number of 3–4-year-old children in population, and the numbers of 3–4-year-old nursery children targeted, consented and receiving FVA.
- 2) A new age filter has been applied when reporting Childsmile Nursery & School 2016/17-2021/22 data. The new age filter for reporting Nursery (3-4 years old), P1-P2 (5-6 years old) and P1-P4 (5-8 years old) data is based on the individual child's date of birth, rather than on class lists uploaded onto the Childsmile@HIC system, as it was the case before. Consequently, the 2016/17–2021/22 data for Nursery, P1-P2 and P1-P4 are not directly comparable with the data presented in previous reports.
- 3) The population baselines for 2021/2022 in this report are based on Small Area Population Estimates at 30 June 2021, provided by the National Records of Scotland (NRS) by Health Board by single year of age. These population estimates are based on the 2011 Census.
- 4) NHS Boards based on the boundaries as at 1st April 2014.

Table 6: Consent and FVA rates – Childsmile School (as a % of the total number of targeted children in participating schools) – by NHS Board, 2021/2022 academic year

NHS Board	Population baseline (up to whatever primary year reached in each HB)	child partici	eted ren in pating ools	Primary childre cons		Primary childre valid cons	ated	Children receiving at least one FVA				Iren rece e only F\		Children receiving two or more FVAs		
	Р	Т	% of P	С	% of T	n	% of T	n	% of T	% of C	n	% of T	% of C	n	% of T	% of C
AA	27,405	3,772	13.8%	3,252	86.2%	3,173	84.1%	2,818	74.7%	86.7%	1,223	32.4%	37.6%	1,595	42.3%	49.0%
В	8,704	534	6.1%	448	83.9%	442	82.8%	385	72.1%	85.9%	231	43.3%	51.6%	154	28.8%	34.4%
DG	10,288	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0.0%	0	0.0%	0.0%	0	0.0%	0.0%
F	29,350	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0.0%	0	0.0%	0.0%	0	0.0%	0.0%
FV	23,375	1,786	7.6%	1,457	81.6%	1,452	81.3%	1,401	78.4%	96.2%	446	25.0%	30.6%	955	53.5%	65.5%
G	46,035	5,522	12.0%	4,423	80.1%	4,385	79.4%	3,887	70.4%	87.9%	2,542	46.0%	57.5%	1,345	24.4%	30.4%
GGC	90,180	22,031	24.4%	16,301	74.0%	15,653	71.0%	12,976	58.9%	79.6%	7,577	34.4%	46.5%	5,399	24.5%	33.1%
Н	22,897	3,430	15.0%	2,645	77.1%	2,611	76.1%	2,374	69.2%	89.8%	791	23.1%	29.9%	1,583	46.2%	59.8%
La	52,730	15,173	28.8%	12,579	82.9%	12,475	82.2%	11,305	74.5%	89.9%	3,973	26.2%	31.6%	7,332	48.3%	58.3%
Lo	69,688	4,530	6.5%	1,866	41.2%	1,779	39.3%	1,416	31.3%	75.9%	546	12.1%	29.3%	870	19.2%	46.6%
0	1,564	1573	100.6%	1455	92.5%	1433	91.1%	1357	86.3%	93.3%	1012	64.3%	69.6%	345	21.9%	23.7%
S	1,905	805	42.3%	764	94.9%	740	91.9%	643	79.9%	84.2%	643	79.9%	84.2%	0	0.0%	0.0%
T	30,604	4,283	14.0%	3,309	77.3%	3,292	76.9%	2,928	68.4%	88.5%	2,378	55.5%	71.9%	550	12.8%	16.6%
WI	1,820	7	0.4%	6	85.7%	5	71.4%	4	57.1%	66.7%	4	57.1%	66.7%	0	0.0%	0.0%
Sco	416,545	63,445	15.2%	48,504	76.5%	47,439	74.8%	41,494	65.4%	85.5%	21,366	33.7%	44.0%	20,128	31.7%	41.5%

- 1) "Targeted children" relates primarily to the children in classes P1-P4. Childsmile teams may varnish in classes above P4 but this activity is at the discretion of the NHS Board.
- 2) The population baselines for 2021/2022 in this report are based on Small Area Population Estimates at 30 June 2021, provided by the National Records of Scotland (NRS) by Health Board by single year of age. These population estimates are based on the 2011 Census.
- 3) NHS Boards based on the boundaries as at 1st April 2014.

Table 7: P1-P4 and P1-P2 targeting, consent and FVA rates - Childsmile School, by NHS Board, 2021/2022 academic year

NHS board	P1-P4 aged population in NHS board (baseline)	child partic	ed P1-P4 Iren in ipating lools		children onsents	with validated		P1-P4 children receiving at least one FVA				children ro	•	P1-P4 children receiving two or more FVAs		
	Р	Т	% of P	С	% of T	n	% of T	n	% of T	% of C	n	% of T	% of C	n	% of T	% of C
AA	15,110	3,213	21.3%	2,801	87.2%	2,738	85.2%	2,450	76.3%	87.5%	1,092	34.0%	39.0%	1,358	42.3%	48.5%
В	4,922	492	10.0%	440	89.4%	434	88.2%	381	77.4%	86.6%	233	47.4%	53.0%	148	30.1%	33.6%
DG	5,570	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0.0%	0	0.0%	0.0%	0	0.0%	0.0%
F	16,265	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0.0%	0	0.0%	0.0%	0	0.0%	0.0%
FV	12,849	1,669	13.0%	1,405	84.2%	1,400	83.9%	1,357	81.3%	96.6%	424	25.4%	30.2%	933	55.9%	66.4%
G	25,779	5,191	20.1%	4,266	82.2%	4,229	81.5%	3,751	72.3%	87.9%	2,448	47.2%	57.4%	1,303	25.1%	30.5%
GGC	50,901	21,120	41.5%	15,869	75.1%	15,241	72.2%	12,705	60.2%	80.1%	7,420	35.1%	46.8%	5,285	25.0%	33.3%
Н	12,654	3,006	23.8%	2,525	84.0%	2,494	83.0%	2,278	75.8%	90.2%	760	25.3%	30.1%	1,518	50.5%	60.1%
La	29,539	13,355	45.2%	11,605	86.9%	11,505	86.1%	10,590	79.3%	91.3%	3,696	27.7%	31.8%	6,894	51.6%	59.4%
Lo	39,262	4,221	10.8%	1,735	41.1%	1,653	39.2%	1,307	31.0%	75.3%	497	11.8%	28.6%	810	19.2%	46.7%
T	17,044	4,054	23.8%	3,189	78.7%	3,173	78.3%	2,823	69.6%	88.5%	2,311	57.0%	72.5%	512	12.6%	16.1%
Mainland - total	229,895	56,321	24.5%	43,835	77.8%	42,867	76.1%	37,642	66.8%	85.9%	18,881	33.5%	43.1%	18,761	33.3%	42.8%
NHS board	P1-P2 aged population in NHS board (baseline)	child partic	ed P1-P2 Iren in ipating lools		children onsents	with va	P1-P2 children with validated consents		children red least one F	_		children re one only F	_		children re o <i>or more</i> F	_
	Р	Т	% of P	C	% of T	n	% of T	n	% of T	% of C	n	% of T	% of C	n	% of T	% of C
0	416	376	90.4%	354	94.1%	349	92.8%	337	89.6%	95.2%	255	67.8%	72.0%	82	21.8%	23.2%
S	508	440	86.6%	425	96.6%	413	93.9%	353	80.2%	83.1%	353	80.2%	83.1%	0	0.0%	0.0%
WI	470	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0.0%	0	0.0%	0.0%	0	0.0%	0.0%
Islands - total	1,394	816	58.5%	779	95.5%	762	93.4%	690	84.6%	88.6%	608	74.5%	78.0%	82	10.0%	10.5%

- 1) Table 7 presents number of children in P1-P4 or P1-P2 population, and the numbers of P1-P4 or P1-P2 children targeted, consented and receiving FVA.
- 2) The population baselines for 2021/2022 in this report are based on Small Area Population Estimates at 30 June 2021, provided by the National Records of Scotland (NRS) by Health Board by single year of age. These population estimates are based on the 2011 Census.
- 3) There are different arrangements for delivery of fluoride varnish in nurseries and schools in NHS Orkney, NHS Shetland and NHS Western Isles. From January 2011 **all** children in nurseries and schools up to P2 (inclusive) are targeted to receive fluoride varnish through Childsmile Nursery/School components of the programme, whereas children in school years P3 to P7 are followed up through Childsmile Practice.
- 4) NHS Boards based on the boundaries as at 1st April 2014.

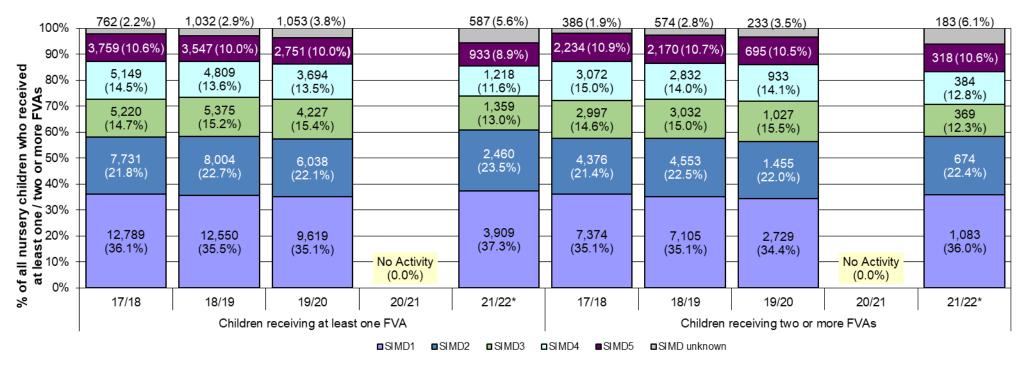


Figure 6: Nursery children receiving at least one and two or more FVAs by SIMD quintile - Scotland, 2017/18-2021/22 academic year

FVA – fluoride varnish application, SIMD – Scottish Index of Multiple Deprivation (local).

- 1) Figure 6 presents the proportion of children in each SIMD quintile who received at least one and two or more FVAs. The numbers in the sections of the bars represent the numbers (and percentages) of children who received at least one / two or more FVA(s) belonging to each SIMD quintile. For example, in 2019/2020 academic year, 2,279 children who received two or more FVAs belonged to SIMD1 quintile (34.4% of the total number of children who received two or more FVAs); 1,455 (22.0%) children belonged to SIMD2; 1,027 (15.5%) to SIMD3; 933 (14.1%) to SIMD4; 695 (10.5%) to SIMD5 quintile; and there were 233 (3.5%) children with unknown SIMD (due to insufficient postcode information). All six categories combined add up to 100%.
- 2) SIMD 2016 (local, NHS Board-level) was used.
- 3) \*A new age filter has been applied when reporting Childsmile Nursery & School 2016/17-2021/22 data. The new age filter for reporting Nursery (3-4 years old), P1-P2 (5-6 years old) and P1-P4 (5-8 years old) data is based on the individual child's date of birth, rather than on class lists uploaded onto the Childsmile@HIC system, as it was the case before. Consequently, the 2016/17–2021/22 data for Nursery, P1-P2 and P1-P4 are not directly comparable with the previous years' data.

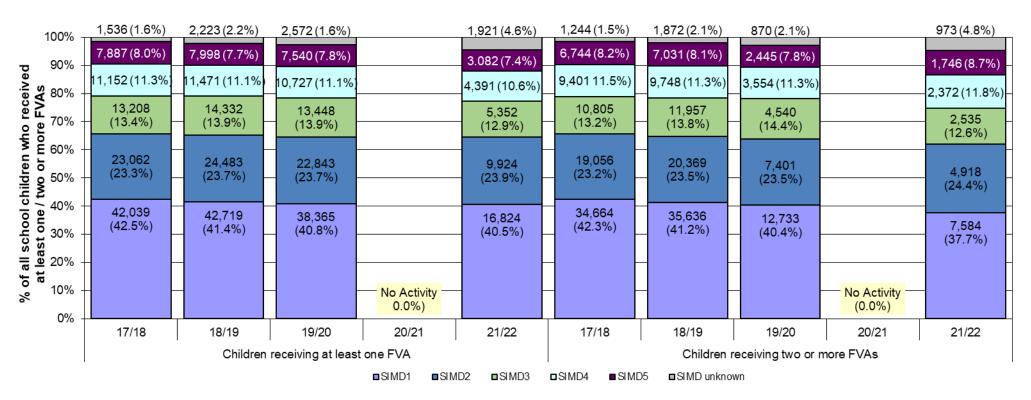


Figure 7: Primary school children receiving *at least one* and *two or more* FVAs by SIMD quintile - Scotland, 2017/18-2021/22 academic year FVA – fluoride varnish application, SIMD – Scottish Index of Multiple Deprivation (local).

- 1) Primary school children here include all children in P1 to P7 classes receiving fluoride varnish, depending on how high up the primary years Childsmile teams have reached in participating schools. Also see notes for Figure 6.
- 2) SIMD 2016 (local, NHS Board-level) was used.

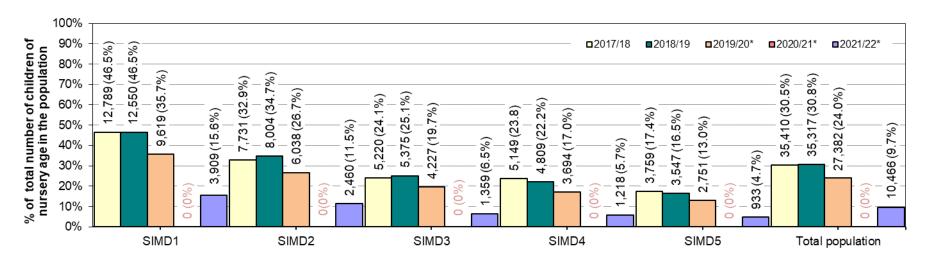


Figure 8: Proportion of population of nursery aged (3-4-years-old) children in each SIMD (local) quintile who received at least one FVA – Scotland, 2017/18-2021/22 academic year

FVA – fluoride varnish application, SIMD – Scottish Index of Multiple Deprivation (local).

- 1) Figure 8 presents the proportion of nursery age children in each SIMD (local) quintile who received at least one FVA within an academic year (as a proportion of total number of children of nursery age in the population).
- 2) A new age filter has been applied when reporting Childsmile Nursery & School 2016/17–2021/22 data. The new age filter for reporting Nursery (3-4 years old), P1-P2 (5-6 years old) and P1-P4 (5-8 years old) data is based on the individual child's date of birth, rather than on class lists uploaded onto the Childsmile@HIC system, as it was the case before. Consequently, the 2016/17–2021/22 data for Nursery, P1-P2 and P1-P4 are not directly comparable with the previous years' data.
- 3) The denominator is the population of 3-4-year-olds in each SIMD quintile:
  - -The population baselines for 2021/2022 in this report were calculated using Small Area Population Estimates at 30 June 2021 provided by the NRS. These population estimates are based on the 2011 Census. Population estimates can be found online at: https://www.opendata.nhs.scot/dataset/population-estimates.
  - -The population baselines for 2020/2021 were calculated using Small Area Population Estimates at 30 June 2020.
  - -The population baselines for 2019/2020 were calculated using Small Area Population Estimates at 30 June 2019.
  - -The population baselines for 2018/2019 were calculated using Small Area Population Estimates at 30 June 2018.
  - -The population baselines for 2017/2018 were calculated using Small Area Population Estimates at 30 June 2017.
- 4) "Total population" numbers do not equal the sum of the numbers in the five SIMD categories, as total numbers include children who could not be assigned to a SIMD quintile (due to missing or incorrect child postcode).
- 5) SIMD 2016 (local, NHS Board-level) was used.

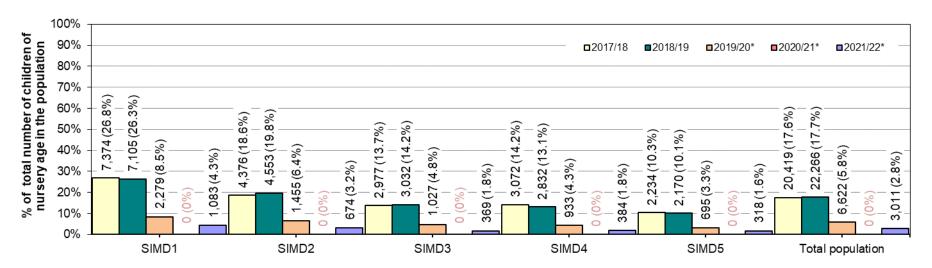


Figure 9: Proportion of population of nursery children (3-4-years-old) in each SIMD (local) quintile who received two or more FVAs – Scotland, 2017/18-2021/22 academic year

FVA – fluoride varnish application, SIMD – The Scottish Index of Multiple Deprivation (local).

- 1) Figure 9 presents the proportion of nursery age children in each SIMD (local) quintile who received two or more FVAs within an academic year (as a proportion of total number of children of nursery age in the population).
- 2) A new age filter has been applied when reporting Childsmile Nursery & School 2016/17–2021/22 data. The new age filter for reporting Nursery (3-4 years old), P1-P2 (5-6 years old) and P1-P4 (5-8 years old) data is based on the individual child's date of birth, rather than on class lists uploaded onto the Childsmile@HIC system, as it was the case before. Consequently, the 2016/17–2021/22 data for Nursery, P1-P2 and P1-P4 are not directly comparable with the previous years' data.
- 3) The denominator is the population of 3-4-year-olds in each SIMD quintile:
  - -The population baselines for 2021/2022 in this report were calculated using Small Area Population Estimates at 30 June 2021 provided by the NRS. These population estimates are based on the 2011 Census. Population estimates can be found online at: <a href="https://www.opendata.nhs.scot/dataset/population-estimates">https://www.opendata.nhs.scot/dataset/population-estimates</a>.
  - -The population baselines for 2020/2021 were calculated using Small Area Population Estimates at 30 June 2020.
  - -The population baselines for 2019/2020 were calculated using Small Area Population Estimates at 30 June 2019.
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  - -The population baselines for 2017/2018 were calculated using Small Area Population Estimates at 30 June 2017.
- 4) "Total population" numbers do not equal the sum of the numbers in the five SIMD categories, as total numbers include children who could not be assigned to a SIMD quintile (due to missing or incorrect child postcode).
- 5) SIMD 2016 (local, NHS Board-level) was used.

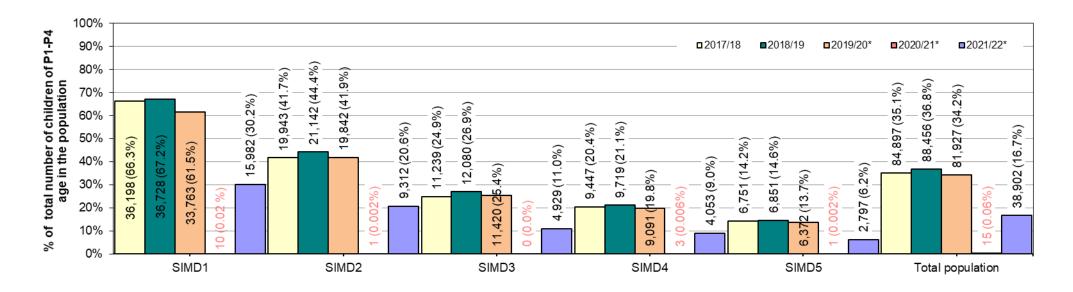


Figure 10: Proportion of the whole population of P1-P4 age children in each SIMD (local) quintile who received at least one FVA – Scotland, 2017/18-2021/22 academic year

FVA - fluoride varnish application, SIMD - The Scottish Index of Multiple Deprivation (local).

- 1) Figure 10 presents the proportion of P1-P4 age children in each SIMD (local) quintile who received at least one FVA within an academic year (as a proportion of total number of children of P1-P4 age in the population).
- 2) A new age filter has been applied when reporting Childsmile Nursery & School 2016/17–2021/22 data. The new age filter for reporting Nursery (3-4 years old), P1-P2 (5-6 years old) and P1-P4 (5-8 years old) data is based on the individual child's date of birth, rather than on class lists uploaded onto the Childsmile@HIC system, as it was the case before. Consequently, the 2016/17–2021/22 data for Nursery, P1-P2 and P1-P4 are not directly comparable with the previous years' data.
- 3) The denominator is the population of P1-P4 age children (5 to 8 years old) in each SIMD quintile.
  - -The population baselines for 2021/2022 in this report were calculated using Small Area Population Estimates at 30 June 2021 provided by the NRS. These population estimates are based on the 2011 Census. Population estimates can be found online at: https://www.opendata.nhs.scot/dataset/population-estimates.
  - -The population baselines for 2020/2021 were calculated using Small Area Population Estimates at 30 June 2020.
  - -The population baselines for 2019/2020 were calculated using Small Area Population Estimates at 30 June 2019.
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  - -The population baselines for 2017/2018 were calculated using Small Area Population Estimates at 30 June 2017.
- 4) "Total population" numbers do not equal the sum of the numbers in the five SIMD categories, as total numbers include children who could not be assigned to a SIMD quintile (due to missing or incorrect child postcode).
- 5) SIMD 2016 (local, NHS Board-level) was used.

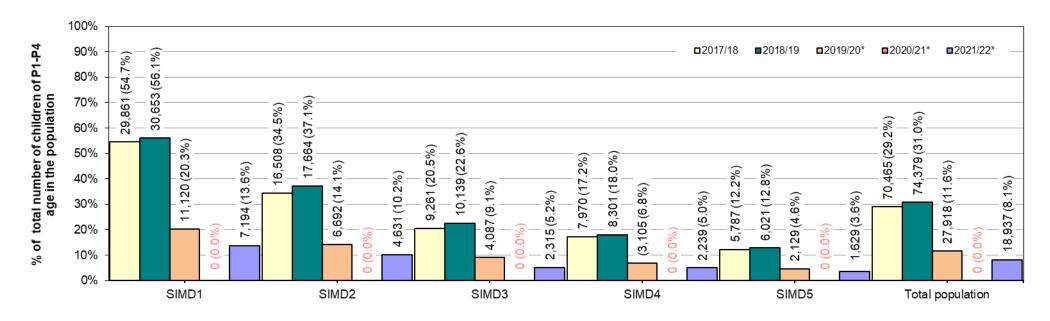


Figure 11: Proportion of the whole population of P1-P4 age children in each SIMD (local) quintile who received two or more FVAs – Scotland, 2017/18-2021/22 academic year

FVA - fluoride varnish application, SIMD - The Scottish Index of Multiple Deprivation (local).

- 1) Figure 11 presents the proportion of P1-P4 age children in each SIMD (local) quintile who received *two or more* FVAs within an academic year (as a proportion of total number of children of P1-P4 age in the population).
- 2) A new age filter has been applied when reporting Childsmile Nursery & School 2016/17–2021/22 data. The new age filter for reporting Nursery (3-4 years old), P1-P2 (5-6 years old) and P1-P4 (5-8 years old) data is based on the individual child's date of birth, rather than on class lists uploaded onto the Childsmile@HIC system, as it was the case before. Consequently, the 2016/17–2021/22 data for Nursery, P1-P2 and P1-P4 are not directly comparable with the previous years' data.
- 3) The denominator is the population of P1-P4 age children (5 to 8 years old) in each SIMD quintile.
  - -The population baselines for 2019/2020 in this report were calculated using Small Area Population Estimates at 30 June 2019 provided by the NRS. These population estimates are based on the 2011 Census. Population estimates can be found online at: <a href="https://www.opendata.nhs.scot/dataset/population-estimates">https://www.opendata.nhs.scot/dataset/population-estimates</a>.
  - -The population baselines for 2020/2021 were calculated using Small Area Population Estimates at 30 June 2020.
  - -The population baselines for 2019/2020 were calculated using Small Area Population Estimates at 30 June 2019.
  - -The population baselines for 2018/2019 were calculated using Small Area Population Estimates at 30 June 2018.
  - -The population baselines for 2017/2018 were calculated using Small Area Population Estimates at 30 June 2017.
- 4) "Total population" numbers do not equal the sum of the numbers in the five SIMD categories, as total numbers include children who could not be assigned to a SIMD quintile (due to missing or incorrect child postcode).
- 5) SIMD 2016 (local, NHS Board-level) was used.

Table 8 Proportion of population of nursery and P1-P4 children receiving at least one FVA / one FVA only / two or more FVAs, by local SIMD – Scotland, 2021/2022 academic year

	SIMD (local, NHS Board-	Nursery population baseline (3-4 years of age)  Childre receivir at least one		iving		receiving oly FVA	Children receiving two or more FVAs		
	level)	N	n	% of N	n	% of N	n	% of N	
	1	25,058	3,909	15.6%	2,826	11.3%	1,083	4.3%	
Nursery	2	21,361	2,460	11.5%	1,786	8.4%	674	3.2%	
	3	20,787	1,359	6.5%	990	4.8%	369	1.8%	
	4	21,284	1,218	5.7%	834	3.9%	384	1.8%	
	5	19,670	933	4.7%	615	3.1%	318	1.6%	
	Unknown	0	587	0.0%	404	0.0%	183	0.0%	
	Total	108,160	10,466	9.7%	7,455	6.9%	3,011	2.8%	
	SIMD (local, NHS Board-	P1-P4 population baseline (5-8 years of age)	rece	dren iving one FVA		receiving oly FVA	Children receiving two or more FVAs		
	level)	N	n	% of N	n	% of N	n	% of N	
D4 D4	1	52,900	15,982	30.2%	8.788	16.6%	7,194	13.6%	
P1-P4	2	45,237	9,312	20.6%	4,681	10.3%	4,631	10.2%	
	3	44,882	4,929	11.0%	2,614	5.8%	2,315	5.2%	
	4	44,822	4,053	9.0%	1,814	4.0%	2,239	5.0%	
	5	44,926	2,797	6.2%	1,168	2.6%	1,629	3.6%	
	Unknown	0	1,829	0.0%	0	0.0%	929	0.0%	
	Total	232,767	38,902	16.7%	19,065	8.1%	18,937	8.1%	

- 1) The population baselines for 2021/2022 in this report were calculated using Small Area Population Estimates at 30 June 2021 provided by the NRS. These population estimates are based on the 2011 Census. Population estimates can be found online at: <a href="https://www.opendata.nhs.scot/dataset/population-estimates">https://www.opendata.nhs.scot/dataset/population-estimates</a>.
- 2) SIMD 2016 (local, NHS Board-level) was used.

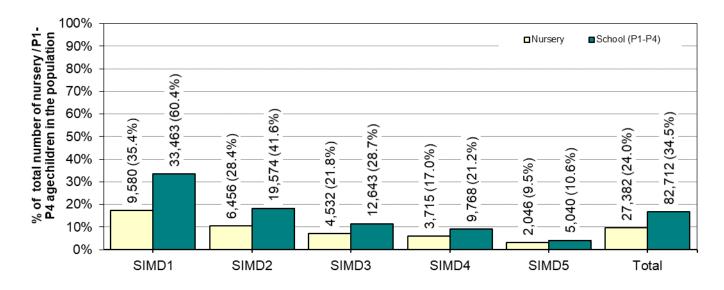


Figure 12: Proportion of population of nursery (3–4-year-olds) and P1-P4 children receiving at least one FVA, by national SIMD – Scotland, 2021/2022 academic year

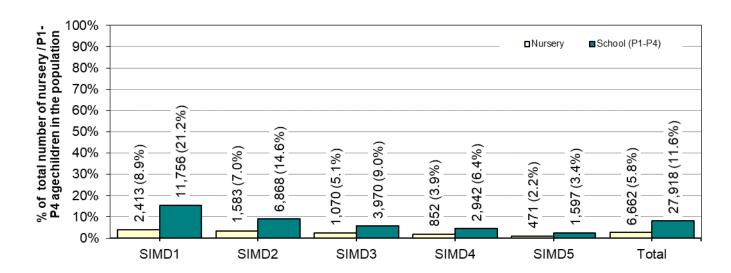


Figure 13: Proportion of population of nursery (3–4-year-olds) and P1-P4 children receiving two or more FVAs, by national SIMD – Scotland, 2021/2022 academic year

- 1) Figure 12 presents the proportion of nursery / P1-P4 age children in each SIMD (national) quintile who received *at least one* FVA in 2021/22 academic year (as a proportion of total number of children of nursery / P1-P4 age in the population). Figure 13 presents the proportion of nursery / P1-P4 age children in each SIMD (national) quintile who received *two or more* FVAs in 2021/22 academic year (as a proportion of total number of children of nursery / P1-P4 age in the population).
- 2) The numerator is children of nursery / P1-P4 age who received at least one / two or more FVAs.
- 3) A new age filter has been applied when reporting Childsmile Nursery & School 2016/17–2021/22 data. The new age filter for reporting Nursery (3-4 years old), P1-P2 (5-6 years old) and P1-P4 (5-8 years old) data is based on the individual child's date of birth, rather than on class lists uploaded onto the Childsmile@HIC system, as it was the case before. Consequently, the 2016/17–2021/22 data for Nursery, P1-P2 and P1-P4 are not directly comparable with the previous years' data.
- 4) The denominator is all children (nursery / P1-P4 age in the population) in each SIMD quintile. The population baselines for 2021/20202 in this report were calculated using Small Area Population Estimates at 30 June 2021 provided by the NRS. These population estimates are based on the 2011 Census.
- 5) Total population" numbers do not equal the sum of the numbers in the five SIMD categories, as total numbers include children who could not be assigned to a SIMD quintile (due to missing or incorrect postcode of the child).
- 6) SIMD 2016 (national, Scotland-level) was used.

Table 9 Proportion of population of nursery and P1-P4 children receiving at least one FVA / one FVA only / two or more FVAs, by \*National SIMD – Scotland, 2021/2022 academic year

	SIMD (national, Scotland- level)	Nursery population baseline (3-4 years of age)	rece	dren iving one FVA		receiving oly FVA	Children receiving two or more FVAs		
		N	n	% of N	n	% of N	n	% of N	
	1	25,208	4,333	17.2%	3,313	13.1%	1020	4.0%	
Nursery	2	21,526	2,251	10.5%	1,518	7.0%	733	3.4%	
	3	19,601	1,367	7.0%	895	4.5%	472	2.4%	
	4	22,069	1,328	6.0%	930	4.2%	398	1.8%	
	5	19,756	600	3.0%	395	2%	205	1.0%	
	Unknown	0	587	0.0%	0	0.0%	183	0.0%	
	Total	108,160	10,466	9.7%	7,455	6.9%	3,011	2.8%	
	SIMD (national, Scotland- level)	P1-P4 population baseline (5-8 years of age)	rece	dren iving <i>on</i> e FVA		receiving oly FVA	Children receiving two or more FVAs		
		N	n	% of N	n	% of N	n	% of N	
P1-P4	1	52,928	17,698	(33.4%)	9,457	17.8%	8,241	(15.6%)	
P1-P4	2	46,055	8,394	(18.2%)	4,235	9.2%	4,159	(9.0%)	
	3	42,430	4,848	(11.4%)	2,400	5.6%	2,448	(5.8%)	
	4	46,820	4,295	(9.2%)	2,214	4.7%	2,081	(4.4%)	
	5	44,534	1,838	(4.1%)	759	1.7%	1,079	(2.4%)	
	Unknown		1,829	0.0%	0	0.0%	929	0,0%	
	Total	232,767	38,902	(16.7%)	19,965	8.5%	18,937	(8.1%)	

<sup>\*</sup>Numbers in SIMD categories differ from those in Table 6 (local SIMD) while the column totals remain the same.

- 1) The population baselines for 2021/2022 in this report were calculated using Small Area Population Estimates at 30 June 2021 provided by the NRS. These population estimates are based on the 2011 Census. Population estimates can be found online at: https://www.opendata.nhs.scot/dataset/population-estimates.
- 2) SIMD 2016 (national, Scotland-level) was used.

Table 10: Additional support needs children receiving FVA, by NHS Board, 2019/2020 academic year

Health Board	Number of ASN children in fluoride varnishing establishments	ASN children receiving at least one FVA		ASN children receiving one only FVA		ASN children receiving two or more FVAs	
	N	n	% of N	n	% of N	n	% of N
AA	618	419	67.8%	170	27.5%	249	40.3%
В	39	5	12.8%	5	12.8%	0	0.0%
DG	0	0	0.0%	0	0.0%	0	0.0%
F	0	0	0.0%	0	0.0%	0	0.0%
FV	328	142	43.3%	135	41.2%	7	2.1%
G	319	154	48.3%	70	21.9%	84	26.3%
GGC	31	5	16.1%	5	16.1%	0	0.0%
Н	229	94	41.0%	43	18.8%	51	22.3%
La	1778	988	55.6%	399	22.4%	589	33.1%
Lo	48	0	0.0%	0	0.0%	0	0.0%
0	1	0	0.0%	0	0.0%	0	0.0%
S	12	0	0.0%	0	0.0%	0	0.0%
T	10	1	10.0%	1	10.0%	0	0.0%
WI	0	0	0.0%	0	0.0%	0	0.0%
Scotland	3,413	1,808	53.0%	828	24.3%	980	28.7%

ASN – Additional support needs, FVA – fluoride varnish application

<sup>1)</sup> The table includes children recorded on the Childsmile@HIC system under class type "SpEd" (special education); children in these classes may be of different ages.

<sup>2)</sup> NHS Boards based on the boundaries as at 1st April 2014.

## **Childsmile Practice**

Please refer to Appendix 1 for definitions of terms used throughout this report.

## Child referral and dental health support worker contact

DHSW Practice data are presented by financial year.

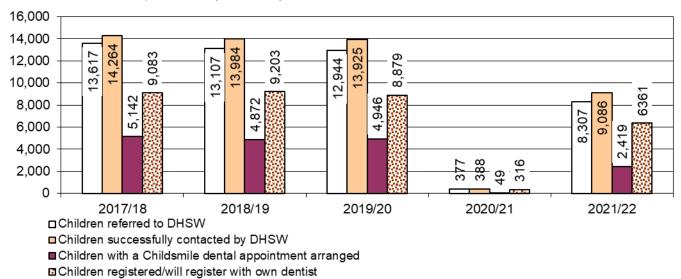


Figure 14: DHSW: Child referrals, contacts, practice appointments made and children registered/will register with own dentist – Scotland, 2017/18-2021/22 financial year

DHSW - Dental Health Support Worker.

- 1) Figure 14 presents the number of children referred to a DHSW (as entered into the Childsmile HIC system by DHSWs), the number of children / families contacted by a DHSW, the number of children who had a Childsmile dental appointment arranged by a DHSW, and children whose parents/carers indicated that their child was registered / would register with their own dentist, by financial year for the period 2017/18-2021/22.
- 2) Children referred to a DHSW in one reporting period may not be contacted by a DHSW or have a dental appointment arranged within the same reporting period.
- 3) NHS Boards based on the boundaries as at 1 April 2014

Table 11: DHSW: Child referrals, contacts, practice appointments made and children registered with own dentist – by NHS Board, 2019/2020 financial year

NHS Board	Children referred to DHSW	Children successfully contacted by DHSW	Children with a Childsmile dental appointment arranged	Children registered/ will register with own dentist (self-reported)
AA	53	59	17	39
В	469	644	273	306
DG	251	271	59	184
F	10	11	3	7
FV	372	409	144	223
G	325	339	77	235
GGC	4,089	4,317	1,168	3,174
Н	596	657	302	222
La	838	938	227	722
Lo	576	655	20	617
0	137	139	0	139
S	0	0	0	0
T	27	32	1	30
WI	0	0	0	0
Unknown NHS Board	564	615	128	463
Scotland	8,307	9,086	2,419	6,361

DHSW – Dental Health Support Worker. Please see notes for Figure 14.

In total, according to the Childsmile@HIC system data, in the 2021/2022 financial year: 6,285 children were referred to Childsmile from a Health Visitor; 1089 via 'Other' source; 182 from a dentist; 71 via Clinic; 272 were referred by NHS 24; 51 were self-referrals and for 357 children the type of referral was not specified.

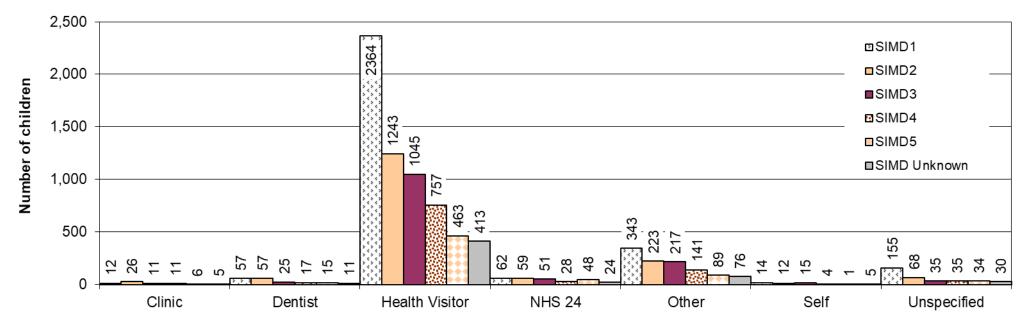


Figure 15: Number of children referred to DHSW by national SIMD of child – Scotland, 2021/2022 financial year Number of children referred to DHSW by national SIMD of child – Scotland, 2021/2022 financial year

DHSW - Dental Health Support Worker, SIMD - The Scottish Index of Multiple Deprivation (national).

- 1) Figure 15 presents the number of children referred to a DHSW (by Health Visitor, Dentist, via Clinic, Self-referral or 'Other' route) by SIMD of child's home postcode.
- 2) SIMD 2016 (national) was used.

In total in the 2021/2022 financial year there were: 9,010 children with at least one kept DHSW appointment; 89 families who refused Childsmile; 89 families that could not be contacted; and for 321 families the end result was an 'FTA / Not at home'.

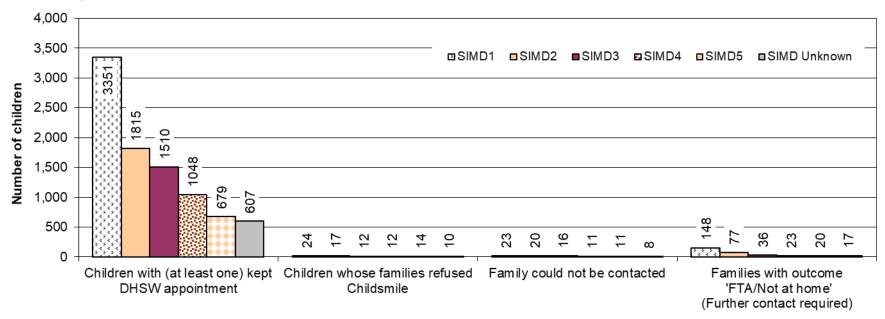


Figure 16: Children successfully contacted and not contacted by DHSW, and families who refused Childsmile, by national SIMD of child – Scotland, 2021/2022 financial year.

DHSW - Dental Health Support Worker, SIMD - The Scottish Index of Multiple Deprivation (national), FTA - failed to attend.

- 1) Figure 16 presents the number of children with kept DHSW appointments, children whose families refused Childsmile, number of families that could not be contacted and families with the outcome 'FTA / Not at home' by SIMD of child's home postcode.
- 2) SIMD 2016 (national) was used.

The method of presenting the data on children with different numbers of kept DHSW appointments was changed in the 2015/2016 report, therefore 2015/16–2021/22 data are comparable; however, these are not comparable with the numbers in earlier reports.

Within the 2021/2022 financial year 9,010 children had at least one kept DHSW appointment. Of these children, 7,965 had their first kept appointment within the reporting period. 1,467 children had their second kept appointment and 467 had their third (or greater) kept DHSW appointment within 2021/2022.

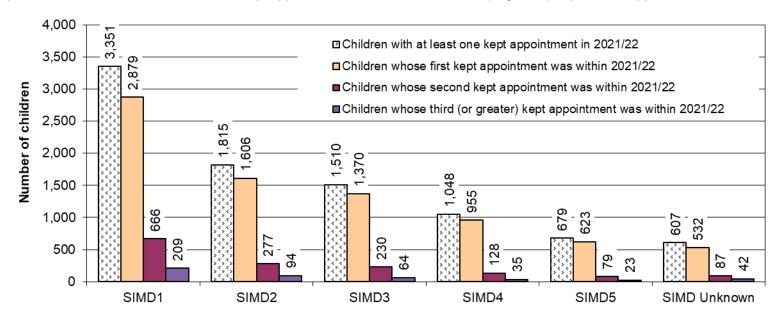


Figure 17: Children with different numbers of kept DHSW appointments by national SIMD of child – Scotland, 2021/2022 financial year

SIMD - Scottish Index of Multiple Deprivation (national).

- 1) Figure 17 presents the number of children with at least one kept DHSW appointment within the 2021/2022 financial year and how many of those had their: first, second, or third (or greater) kept appointment within the reporting period by SIMD of the child's home postcode.
- 2) For those children who had their second, or their third (or greater) kept appointment, their prior kept appointment may have occurred in an earlier reporting period.
- 3) The numbers in the last three bars (children with 1st kept appointment, those whose 2nd appointment was within 2021/22 and those whose 3rd (or greater) appointment was within 2021/22 are not mutually exclusive, as some children might have had several appointments within the same 2021/22 financial year, i.e., their 1st, 2nd and 3rd (or greater).
- 4) Data for this figure are only available for appointments from January 2010 onwards. Kept appointments prior to this were not collected by the Childsmile@HIC system and therefore are not available for inclusion in this figure.
- 5) SIMD 2016 (national) was used.

## Practice engagement

Primary Care Dental Services (PCDS) activity data are presented by financial year.

### Incorporation of Childsmile Practice into Statement of Dental Remuneration

Childsmile Practice interventions were incorporated into the SDR by the Scottish Government on 1 October 2011, and therefore the data reported in the Practice Engagement and Delivery in Dental Practice sections of this report are directly comparable with the data published in the September 2012 Childsmile National Headline Data report and onwards.

The PCDS data provided by PHS are given by financial year (1st April to 31st March) and are based on treatments undertaken and paid during that period. Changes to payment codes in the SDR took effect on 01 February 2022 (with no overlap with the previous codes) and these changes altered the data available to PHS. However, PHS were still able to provide data for the full financial year as configured in previous reports and these groupings are used in this document.

PHS are unable to report robust Public Dental Service (PDS) data therefore the total number of PDS practices and those delivering Childsmile interventions cannot be reported.

In total, 900 independent contractor GDS practices were delivering Childsmile interventions during 2021/2022 financial year in Scotland (see table 10 below), which is a 14.6% increase in comparison with 768 independent contractor GDS practices that were delivering Childsmile interventions in 2020/2021.

Table 12: Independent contractor GDS practices delivering Childsmile interventions – Scotland, by NHS Board, 2021/2022 financial year

NHS Board	Total GDS Dental Practices	<b>Practices</b>	Dental Delivering Ismile
	N	n	% of N
AA	66	60	90.9%
В	18	15	83.3%
DG	32	28	87.5%
F	68	59	86.7%
FV	47	43	91.4%
G	93	83	89.2%
GGC	278	241	86.6%
Н	57	45	78.9%
La	123	113	91.8%
Lo	175	142	81.1%
0	4	3	75.0%
S	2	1	50.0%
Т	75	66	88.0%
WI	1	1	100.0%
Scotland	1,039	900	86.6%

Independent contractor GDS – independent contractor General Dental Services (non-salaried GDS), PHS – Public Health Scotland.

- Table 12 presents the number of independent-contractor GDS practices delivering Childsmile interventions in each NHS Board, as a percentage of total number of independent contractor GDS practices (total numbers as at 04 November 2022, calculated from the total list of dental practices supplied by PHS).
- 2) "Dental practices delivering Childsmile" are those practices that have delivered any of the Childsmile interventions (toothbrushing instruction, dietary advice or fluoride varnish application) within the reporting period.
- 3) Total numbers of independent contractor GDS practices include practices with orthodontists only.
- 4) NHS Boards based on the boundaries as at April 2019.

## Delivery in dental practice

The data on the delivery of Childsmile interventions in dental practice settings are collected for the following age groups:

- For toothbrushing instruction and dietary advice there are two age groups from 0 to 2 years, 3 to 5 years (inclusive).
- For FVA there is one age group from 2 to 5 years (inclusive).

Children with *two or more FVAs* (made by a dentist or dental care professional) are those 2-5 years old children (inclusive) who had received an FVA within the reporting period (2019/2020 financial year) and who had also received another FVA in the 12 months prior to that application.

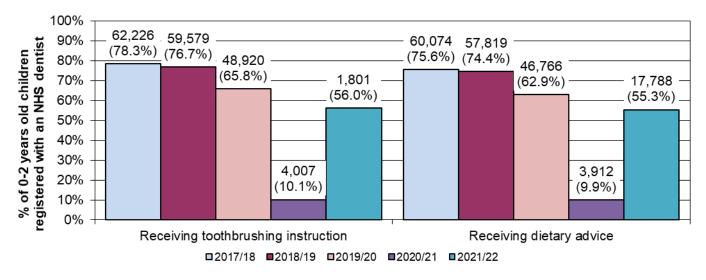


Figure 18: Proportion of 0–2-year-old children registered with an NHS dentist receiving toothbrushing instruction and dietary advice – Scotland, 2017/18-2021/22 financial year

#### NOTES:

1) Numbers of children registered with an NHS dentist, as at 4th November 2022, were provided by PHS.

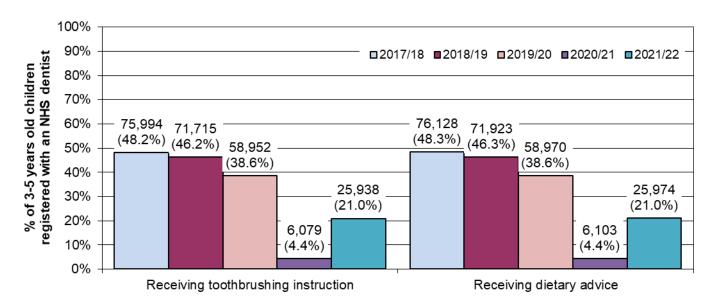


Figure 19: Proportion of 3-5-year-old children registered with an NHS dentist receiving toothbrushing instruction and dietary advice – Scotland, 2017/18-2021/22 financial year

#### NOTES:

1) Numbers of children registered with an NHS dentist, as at 4th November 2022, were provided by PHS.

Table 13: Proportion of 0-2-year-old children registered with an NHS dentist receiving toothbrushing instruction and dietary advice – Scotland, by NHS Board, 2021/2022 financial year

NHS Board	0-2-year-olds registered with an NHS dentist		ds receiving ng instruction	0-2-year-olds receiving dietary advice		
	N	n	% of N	n	% of N	
AA	1,509	789	52.3%	785	52.0%	
В	731	452	61.8%	452	61.8%	
DG	670	343	51.2%	335	50.0%	
F	2,152	1,233	57.3%	1,227	57.0%	
FV	1,513	812	53.7%	785	51.9%	
G	3,599	1,883	52.3%	1,864	51.8%	
GGC	8,180	4,914	60.1%	4,870	59.5%	
Н	1,995	1,012	50.7%	999	50.1%	
La	3,999	2,346	58.7%	2,325	58.1%	
Lo	5,266	2,958	56.2%	2,903	55.1%	
0	123	87	70.7%	87	70.7%	
S	316	249	78.8%	249	78.8%	
Т	1,989	904	45.4%	888	44.6%	
WI	87	12	13.8%	12	13.8%	
Scotland	32,447	18,001	55.4%	17,788	54.8%	

- 1) Numbers of children registered with an NHS dentist, as at 4<sup>th</sup> November 2022, were provided by PHS.
- 2) Scotland totals include children who could not be allocated to an NHS Board (due to a missing/incorrect postcode).
- 3) NHS Boards based on the boundaries as at April 2019.

Table 14: Proportion of 3-5-year-old children registered with an NHS dentist receiving toothbrushing instruction and dietary advice – Scotland, by NHS Board, 2021/2022 financial year

NHS Board	3-5-year-olds registered with an NHS dentist		ds receiving ng instruction	3-5-year-olds receiving dietary advice		
	N	n	% of N	n	% of N	
AA	7,552	1,306	17.3%	1,300	17.2%	
В	2,508	765	30.5%	773	30.8%	
DG	2,758	470	17.0%	470	17.0%	
F	8,669	1,738	20.0%	1,741	20.1%	
FV	6,556	1,248	19.0%	1,251	19.1%	
G	13,970	3,192	22.8%	3,204	22.9%	
GGC	28,843	6,165	21.4%	6,179	21.4%	
Н	6,609	1,291	19.5%	1,314	19.9%	
La	15,854	3,074	19.4%	3,079	19.4%	
Lo	20,106	4,856	24.2%	4,827	24.0%	
0	518	119	23.0%	118	22.8%	
S	673	104	15.5%	104	15.5%	
Т	8,550	1,570	18.4%	1,575	18.4%	
WI	573	36	6.3%	36	6.3%	
Scotland	124,913	25,938	20.9%	25,974	21.0%	

- 1) Numbers of children registered with an NHS dentist, as at 4th November 2022, were provided by PHS.
- 2) Scotland totals include children who could not be allocated to an NHS Board (due to a missing/incorrect postcode).
- 3) NHS Boards based on the boundaries as at April 2019.

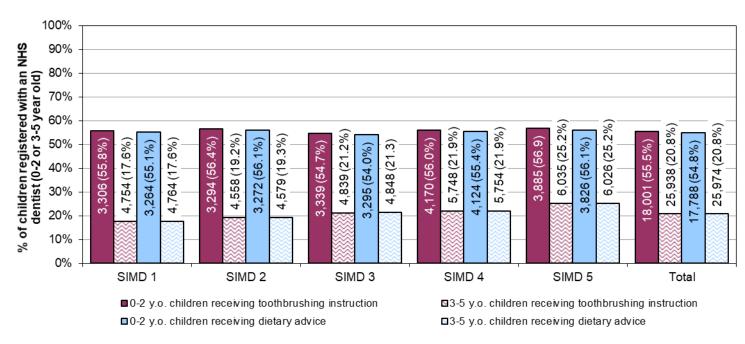


Figure 20: Proportion of 0-2- and 3-5-year-old children registered with an NHS dentist receiving toothbrushing instruction / dietary advice - Scotland, by national SIMD, 2021/2022 financial year

SIMD – The Scottish Index of Multiple Deprivation 2020v2 (national).

#### NOTES:

- 1) Figure 20: Proportion of 0-2- and 3–5-year-old children registered with an NHS dentist receiving toothbrushing instruction / dietary advice Scotland, by national SIMD, 2021/2022 financial year presents the number of 0-2- or 3–5-year-old children receiving toothbrushing instruction or dietary advice shown as a proportion of the total number of 0-2- or 3–5-year-old children registered with an NHS dentist.
- 2) The numbers of children registered with an NHS dentist as at 4th November 2022 were as follows (data supplied by PHS):
  - $-0-2-year-olds: SIMD\ 1-5,924\ children;\ SIMD\ 2-5,837;\ SIMD\ 3-6,103;\ SIMD\ 4-7,442;\ SIMD\ 5-6,823;\ and\ in\ total-32,447\ children\ (including\ SIMD\ Unknown).$
  - -3-5-year-olds: SIMD 1 27,063 children; SIMD 2 23,757; SIMD 3 22,778; SIMD 4 26,217; SIMD 5 23,924; and in total 124,913 children (including SIMD Unknown).
- 3) Totals include children with SIMD unknown (due to a missing/incorrect postcode).
- 4) SIMD 2020v2 (national) was used.

For example, in the 2021/2022 financial year 55.8% of 0–2-year-old children residing in SIMD 1 and registered with an NHS dentist received toothbrushing instruction at least once (3,306 children), and 55.1% of such children received dietary advice at least once (3,264 children).

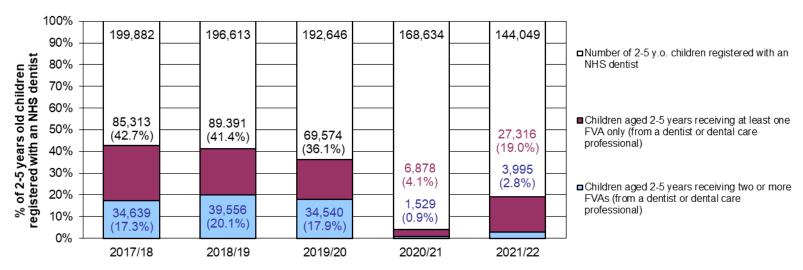


Figure 21: Proportion of 2-5-year-old children registered with an NHS dentist receiving at least one FVA or two or more FVAs – Scotland, 2017/18-2021/22 financial year

FVA – fluoride varnish application.

#### NOTES:

1) Numbers at the top of each column represent the total number of 2–5-year-old children registered with an NHS dentist (as at 26<sup>th</sup> March 2020). Numbers and percentages inside the columns represent the numbers/percentages of such children who received FVA at least once within 2019/2020 financial year, and numbers/percentages of such children who received an FVA within the reporting period and who had also received another FVA in the 12 months prior to that application (labelled "two or more FVAs").

For example, in the 2019/20 financial year 36.1% (65,574) of children registered with an NHS dentist received at least one FVA, and 17.9% (34,540) children received an FVA within 2019/20 and had also received another FVA in the 12 months prior to that application

Table 15: Proportion of 2–5-year-old children registered with an NHS dentist receiving one FVA only / two or more FVAs / at least one FVA – Scotland, by NHS Board, 2021/2022 financial year

НВ	2-5-year- olds registered with an NHS dentist	2-5-year-olds receiving one FVA only		2-5-year-olds receiving two or more FVAs		2-5-year-olds receiving at least one FVA	
	N	n	% of N	n	% of N	n	% of N
AA	8,484	1,256	14.8%	123	1.4%	1,379	16.3%
В	2,959	654	22.1%	195	6.6%	849	28.7%
DG	3,143	368	11.7%	47	1.5%	415	13.2%
F	9,998	1,529	15.3%	275	2.8%	1,804	18.0%
FV	7,468	1,127	15.1%	152	2.0%	1,279	17.1%
G	16,173	3,271	20.2%	744	4.6%	4,015	24.8%
GGC	33,465	5,280	15.8%	786	2.3%	6,066	18.1%
Н	7,777	934	12.0%	264	3.4%	1,198	15.4%
La	18,186	2,605	14.3%	335	1.8%	2,940	16.2%
Lo	23,200	4,675	20.2%	900	3.9%	5,575	24.0%
0	595	142	23.9%	37	6.2%	179	30.1%
S	811	87	10.7%	2	0.2%	89	11.0%
Т	9,807	1,324	13.5%	135	1.4%	1,459	14.9%
WI	633	0	0.0%	0	0.0%	63	10.0%
Scotland	144,049	23,321	16.1%	3,995	2.8%	27,316	19.0%

FVA – fluoride varnish application.

- 1) Numbers of children registered with an NHS dentist, as at 4th November 2022, were provided by ISD.
- 2) Scotland totals include children who could not be allocated to an NHS Board (due to a missing/incorrect postcode).
- 3) NHS Boards based on the boundaries as at April 2019.

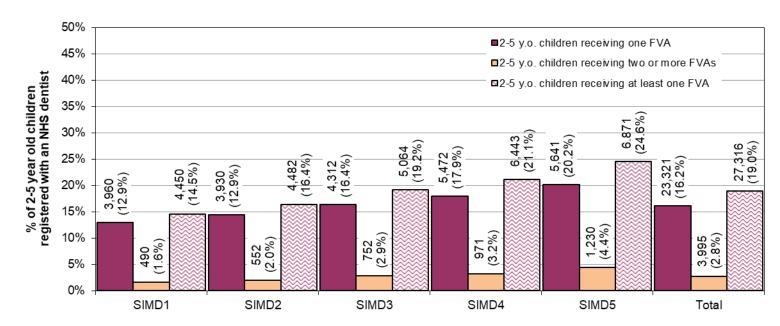


Figure 22: Proportion of 2-5-year-old children registered with an NHS dentist receiving one FVA only / two or more FVAs / at least one FVA – Scotland, by national SIMD, 2021/2022 financial year

FVA – fluoride varnish application, SIMD – The Scottish Index of Multiple Deprivation (national).

#### NOTES:

- 1) Figure 22: Proportion of 2-5-year-old children registered with an NHS dentist receiving one FVA only / two or more FVAs / at least one FVA Scotland, by national SIMD, 2021/2022 financial **Year** presents the number of 2-5-year-old children receiving at least one or two or more FVAs shown as a proportion of the total number of 2-5-year-old children registered with an NHS dentist and belonging to one of the SIMD categories. The number of children receiving at least one FVA is the sum of the number of children receiving one FVA only and the number of those receiving two or more FVAs (*note: the scale on the Y axis only extends to 50%*).
- 2) The numbers of 2-5-year-old children registered with an NHS dentist as at 4th November 2022 were as follows (data supplied by ISD): SIMD 1 30,631 children; SIMD 2 27,263; SIMD 3 26,365; SIMD 4 30,496; SIMD 5 –27,944; and in total there were 144,049 (including SIMD Unknown).
- 3) Totals include children with SIMD unknown (due to a missing/incorrect postcode).
- 4) SIMD 2020v2 (national) was used.

For example, in the 2021/2022 financial year,12.9% of 2-5 year old children residing in SIMD 1 and registered with an NHS dentist received only one FVA (3,960) and did not have another FVA in the 12 months prior to that application (labelled "one FVA only"), 1.6% (490 children) received an FVA within the 2021/2022 financial year and had also received another FVA in the 12 months prior to that application (labelled "two or more FVAs") and 14.5% of 2-5 year old children residing in SIMD 1 and registered with an NHS dentist received at least one FVA (4,450 children).

# Number of fluoride varnish applications in nursery, school and practice settings

110,804 FVAs were applied across all three arms of the programme (Nursery, School and Practice) in 2021/2022.

Table 16: Number of FVAs in nursery, school and practice settings, 2017/18-2021/22

Health		2017/2018			2018/2019			2019/2020			2020/2021			2021/2022	
Board	Nursery	School	Practice	Nursery	School	Practice	Nursery	School	Practice	Nursery	School	Practice	Nursery	School	Practice*
AA	3,196	8,585	6,658	4,373	13,322	6,981	2,899	9,718	5,696	No Activity	0	184	960	4,546	1,452
В	1,029	5,886	2,484	1,299	7,051	2,737	595	3495	2,310	-	0	271	205	711	953
DG	868	2,923	2,520	774	2,412	2,336	492	1,362	1,663	-	0	110	0	0	439
F	2,801	15,083	6,671	2,870	14,854	6,204	1,556	10,770	5,025	-	0	446	0	0	1,951
FV	2,983	6,362	5,557	2,931	6,251	5,321	1,604	3,543	4,183	-	0	229	1,086	2,359	1,372
G	8,323	17,795	13,150	6,344	21,531	13,591	3,432	12,850	10,833	-	0	1,198	1,153	5,281	4,416
GGC	9,087	37,242	21,166	10,514	42,903	21,764	6,712	24,988	17,943	-	0	1,428	3,021	21,816	6,529
Н	4,048	18,621	3,448	4,254	18,917	4,088	2,095	10,806	2,961	-	0	456	1,356	4,207	1,349
La	17,928	35,750	10,778	18,319	35,340	11,284	10,707	23,229	9,737	-	15	529	5,483	19,015	3,153
Lo	6,373	23,996	19,600	5,054	21,330	20,899	2,996	13,632	17,264	-	0	1,720	0	2,290	6,053
0	606	2,742	488	551	2,724	453	382	1,834	338	-	0	72	641	1,705	198
S	724	1,741	355	703	1,661	344	392	915	222	-	0	1	316	643	91
T	3,406	12,843	5,663	3,303	13,218	5,902	2,036	9,131	4,696	-	0	408	933	3,525	1,529
WI	761	2,800	538	715	3,127	502	447	2,071	339	-	0	1	0	4	63
Unknown NHS Board	_	_	588	_	-	49	-	-	28	-	0	3	0	0	6
Scotland	62,133	192,369	99,664	62,004	204,641	102,455	36,345	128,344	83,238	-	15	7,056	15,154	66,102	29,554

FVA – fluoride varnish application.

- 1) Table 16 presents the number of FVAs applied in different settings by academic year, apart from 2017/18-2021/22 Childsmile Practice data (\*), which are reported by financial year.
- 2) If a child's postcode is missing or incorrect, the child cannot be assigned to an NHS Board and is reported under "Unknown NHS Board".
- 3) There are no data available on varnishes applied to P3-P7 children in NHS Orkney, NHS Shetland and NHS Western Isles in practice settings in 2018/19-2021/22.
- 4) NHS Boards based on the boundaries as at April 2019.

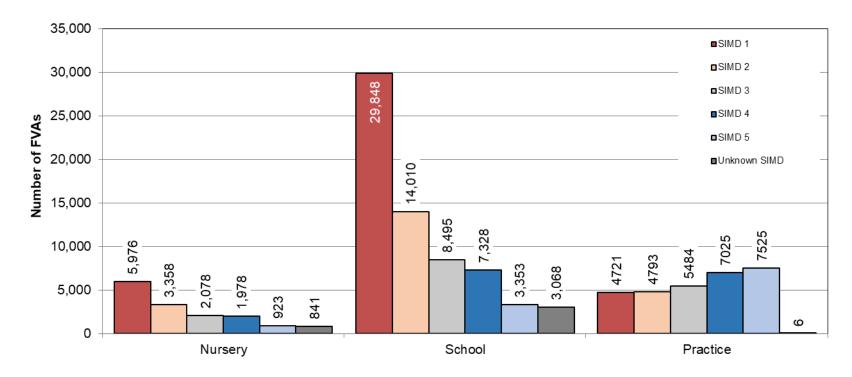


Figure 23: SIMD (national) distribution of FVAs in nursery, school and practice settings – Scotland, 2021/2022

SIMD (national) - The Scottish Index of Multiple Deprivation (national).

- 1) Figure 23: SIMD (national) distribution of FVAs in nursery, school and practice settings Scotland, 2021/2022 shows distribution of FVAs by setting (nursery, school or dental practice) and national SIMD applied in 2021/22 academic (Childsmile Nursery and School) or financial (Childsmile Practice) year.
  - Across the settings, 40,545 FVAs were applied to SIMD 1 children; 22,161 FVAs to SIMD 2 children; 16,057 to SIMD 3; 16,331 to SIMD 4; and 11,801 FVAs were applied to SIMD 5 children. In total, 110,810 FVAs were applied in Nursery, School and Practice settings combined (including FVAs to children with unknown SIMD).
- 2) SIMD 2016 (national) was used for Nursery and School and SIMD 2020v2 (national) was used for Practice.

## Childsmile workforce

Please refer to Appendix 1 for definitions of terms used throughout this report.

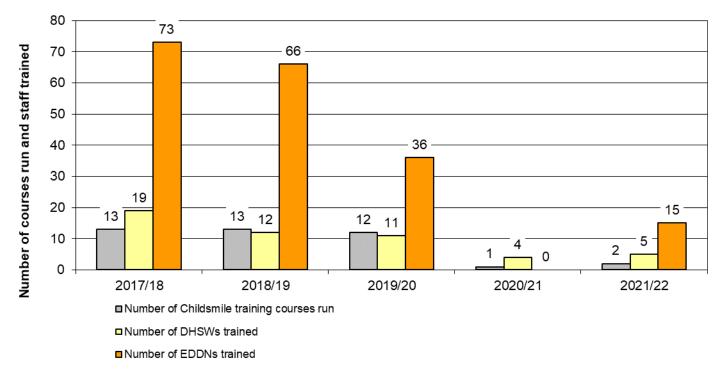


Figure 24: NES Childsmile training courses and staff trained – Scotland, 2017/18-2021/22 financial year DHSW – Dental Health Support Worker, EDDN – Extended Duty Dental Nurse.

- 1) Figure 24: NES Childsmile training courses and staff trained Scotland, 2017/18-2021/22 financial year presents data on the number of Childsmile training courses run and staff trained. The data are provided by NHS Education for Scotland (NES).
- 2) From January 2021, NES Childsmile training courses are now being provided online.

# **Appendix 1: Definitions**

The tables below give definitions for terms used throughout the Childsmile National Headline Data Report.

## **Childsmile Core**

Term	Definition
Childsmile Core	Childsmile Core is a Scotland-wide initiative to help improve the health of children's teeth, through the distribution of free dental packs (containing a toothbrush, tube of 1450ppm fluoride toothpaste and an information leaflet) and supervised toothbrushing programmes in all nurseries, and Primary 1 and Primary 2 classes in priority schools. Over and above this, NHS Boards may deliver toothbrushing to older children in primary schools or include non-priority schools into their toothbrushing programmes.
Establishments participating in the toothbrushing programme (pre- school establishments or primary schools)	Establishments participating in the toothbrushing programme (Childsmile Core) are those establishments (pre-school establishments or primary schools) that <b>had at least one toothbrushing monitoring contact recorded on the Childsmile@HIC system</b> within the reporting period.
SIMD	The Scottish Index of Multiple Deprivation – The measure of deprivation used throughout this report is the population-weighted Scottish Index of Multiple Deprivation (SIMD). The Index considers 32 indicators to provide a relative measure of deprivation. The index is presented by SIMD quintile (a quintile describes a fifth of the population) with SIMD 1 being the most deprived quintile and SIMD 5 being the least deprived quintile.  Health Board (local) SIMD is used for Childsmile Core as NHS Boards utilise the local SIMD index for targeting within this part of the programme.
Total number of pre- school educational establishments	The total numbers of pre-school educational establishments as at July 2022 were provided by the Childsmile teams in NHS Boards.
Total number of Local Authority primary schools	The list of schools as per ScoGov-t school census can be downloaded from the Scottish Government website: <a href="https://www.gov.scot/publications/school-contact-details/">https://www.gov.scot/publications/school-contact-details/</a> (March 2021: populations as at January 2021)

# **Childsmile Nursery & School**

Term	Definition
Childsmile Nursery & Childsmile School	Childsmile Nursery and Childsmile School provide clinical prevention programmes offering twice-yearly fluoride varnishing (in nursery / primary school settings), through community and primary care dental services, for children attending priority nurseries and primary schools.
Children with consents	Children with consents are all children whose parents / guardians have completed, signed and returned a positive consent form (i.e., children with validated consents, with invalid consents and with consents awaiting validation by a dentist).
Children with validated consents	Children with validated consents are children who have been consented by their parents / guardians and whose consents were validated for fluoride varnish application by a dentist (dentists may not validate consents of children who were hospitalised due to asthma or allergies – this is at the dentist's discretion).
Participating establishments (nurseries and schools)	Participating establishments (nurseries and schools) are those <b>establishments with at least one Childsmile Nursery or School fluoride varnish application session</b> during the reporting period.
SIMD	The Scottish Index of Multiple Deprivation – The measure of deprivation used is the 2020v2 population-weighted Scottish Index of Multiple Deprivation (SIMD). The Index considers 32 indicators to provide a relative measure of deprivation. The index is presented by SIMD quintile (a quintile describes a fifth of the population) with SIMD 1 being the most deprived quintile and SIMD 5 being the least deprived quintile.
	Health Board (local) SIMD is used for Childsmile Nursery and School as NHS Boards utilise the local SIMD index for targeting within this part of the programme.
Targeted children in participating nurseries	The number of targeted children in participating nurseries and schools is derived from the Childsmile@HIC system class lists.
/ schools	The number of targeted children in schools relates to the children in the primary year classes reached by the Childsmile teams in participating schools, e.g. Childsmile teams may have reached up to Primary 5 classes and children in primaries 1, 2, 3, 4 and 5 will be included in the figures.
Total number of children (of nursery age, P1-P2 and P1-P4 age) in population	The population baselines in this report are based on Small Area Population Estimates as at 30 June within each reporting year, e.g. the 2019/20 data is based on Small Area Population Estimates as at 30 June 2019. The population estimates are provided by the National Records of Scotland (NRS; <a href="http://www.nrscotland.gov.uk">http://www.nrscotland.gov.uk</a> ). Population estimates can be found online at: <a href="https://www.opendata.nhs.scot/dataset/population-estimates">https://www.opendata.nhs.scot/dataset/population-estimates</a> .
	In this report the total nursery age (3- and 4-year-olds) and cumulative P1-P2 and P1-P4 age populations are used.
Unknown SIMD	If a postcode is missing from a child's record or is incorrect, the record cannot be assigned to a SIMD quintile, Children with incorrect/missing postcodes are reported under the "Unknown SIMD" sections of the relevant graphs.

## **Childsmile Practice**

Term	Definition
Childsmile Practice	The Childsmile Practice programme is a universally accessible child-centred NHS dental service. As part of the Childsmile Practice pathway the programme is introduced to the family by the health visitor who will refer them straight to a dental practice or to a dental health support worker (DHSW). DHSWs will give additional oral health support to children and families most in need and make a first appointment for the child with a local Childsmile dental service, where a programme of Childsmile care, tailored to meet the needs of the individual child, will be provided by the dental team.
Children receiving dietary advice	Children receiving dietary advice are those children who received at least one dietary advice from a dentist or dental care professional within the reporting period.  Numbers are reported separately for 0-2-years-old children, 3-5-years-old children (inclusive).
Children receiving toothbrushing instruction	Children receiving toothbrushing instruction are those children who received toothbrushing instruction from a dentist or dental care professional at least once within the reporting period.  Numbers are reported separately for 0-2-years-old children, 3-5-years-old children (inclusive).
Children referred to DHSW (as recorded on HIC by DHSWs)	Children referred to DHSW by a health visitor, clinic (e.g., recruitment at a weaning fayre or mother & toddler group), dentist, by the NHS 24 service, via self-referral or other route (e.g. or a promotional event), as recorded by Childsmile staff on the HIC system.
Children registered with an NHS dentist	Data on total numbers of children registered with an NHS dentist are supplied by Public Health Scotland in March 2021.
Children registered / will register with own dentist	Children registered/will register with own dentist are children contacted by a DHSW whose parents/guardians advised that the child was registered/would register with own dentist (i.e., self-reported data). These children did not have a dental appointment arranged by a DHSW.
Children successfully contacted by DHSW	Children successfully contacted by DHSW are all children/families contacted by DHSW via a home visit, clinic, a telephone call or by other means (e.g., a promotional event), and for whom an "Appointment Kept" or "Declined on the day – Refused Childsmile" result was recorded.
Children with a Childsmile dental appointment arranged	Children with a Childsmile dental appointment arranged are those children whose families were contacted by a DHSW and who were assisted in booking an appointment at a dental practice delivering Childsmile.
Children with at least one fluoride varnish application (FVA)	Children with at least one FVA (made by a dentist or dental care professional) are those 2-5-years-old children (inclusive) who received an FVA from a dentist or dental care professional, within the reporting period.
Children with one FVA only	Children with one FVA only (made by a dentist or dental care professional) are those 2-5-years-old (inclusive) who had received one FVA within the reporting period and who had not received any more FVAs in the 12 months prior to that application.
Children with two or more FVAs	Children with two or more FVAs (made by a dentist or dental care professional) are those 2-5-years-old (inclusive) who had received at least one FVA within the reporting period and who had also received another FVA in the 12 months prior to that application.

# **Childsmile Practice (continued)**

Term	Definition
Dietary advice	Dietary advice is giving families information on nutrition and drinks (to prevent decay) to foster good oral health behaviour. All contacts within the dental practice offer the opportunity for the whole dental team to inform families of the key oral health messages.
Fluoride varnish application (FVA)	Practices are expected to provide fluoride varnish application to the teeth of all children twice yearly, from the age of 2 (provided an appropriate medical history is available and deemed satisfactory). This is recommended by the Scottish Dental Clinical Effectiveness Programme (SDCEP) Prevention and Management of Dental Caries in Children guidance.
GDS (General Dental Services) dental practices delivering	Dental practices delivering Childsmile interventions are those independent contractor GDS practices that have delivered any of the Childsmile interventions (toothbrushing instruction, dietary advice or fluoride varnish application) within the reporting period.
Childsmile interventions	ISD are unable to report robust Public Dental Service (PDS) data therefore the total number of PDS practices delivering Childsmile interventions cannot be reported.
Independent contractor GDS (independent	Independent contractor General Dental Services are independent practices contracted to work on behalf of local NHS Boards.
contractor General Dental Services)	Independent contractor GDS were called non-salaried GDS in previous reports.
PDS (Public Dental Service)	From 1 January 2014, dentists employed by their local NHS Board provide dental care and treatment under what is known as the Public Dental Service (PDS). PDS includes all Scottish salaried dentists (formerly Community Dental Services and Salaried General Dental Services).
	PDS is a complementary service to general dental practice. In practice this means serving all priority groups, including children or adults who cannot obtain treatment from a general dental practice, people with special needs, patients requiring specialised services including surgical dentistry, paedodontics, and services for anxiety including sedation and general anaesthetics. They also assist with patients who are restricted to their homes or hospitalised.
SIMD	The Scottish Index of Multiple Deprivation – The measure of deprivation used throughout this report is the population-weighted Scottish Index of Multiple Deprivation (SIMD). The Index considers 32 indicators to provide a relative measure of deprivation. The index is presented by SIMD quintile (a quintile describes a fifth of the population) with SIMD 1 being the most deprived quintile and SIMD 5 being the least deprived quintile.
	SIMD 2012 was used for 2014/15, SIMD 2016 was used for 2015/16–2021/22 data.
	National SIMD is used for Childsmile Practice as payments are processed for General Dental Practitioners using the national SIMD index.
Toothbrushing instruction	Toothbrushing instruction is giving families information on when to brush, types of brush and toothpaste to use, amount of toothpaste to use, methods and demonstrations of brushing, and parents brushing their child's teeth to demonstrate skill acquisition. All contacts within the dental practice offer the opportunity for the whole dental team to inform families of the key oral health messages.
Total number of independent-contractor GDS practices	The total numbers of independent contractor general dental practices as at 4 <sup>th</sup> November 2022 were supplied by PHS Scotland, MIDAS.

# **Childsmile Practice (continued)**

Term	Definition
Unknown NHS Board	If a postcode is missing from a child's record or is incorrect, the record cannot be assigned to a health board. All children with incorrect/missing postcodes are reported under "Unknown NHS Board" section of the relevant graphs.
Unknown SIMD	If a postcode is missing from a child's record or is incorrect, the record cannot be assigned to a SIMD quintile, Children with incorrect/missing postcodes are reported under the "Unknown SIMD" sections of the relevant graphs.

## **Childsmile Workforce**

Term	Definition
Dental Health Support Workers (DHSW)	Dental Health Support Workers are employed by NHS Boards and are responsible for liaising with families, health visitor teams, nurseries, schools and dental practices with regards to Childsmile.
Extended Duty Dental Nurses (EDDN)	Extended Duty Dental Nurses may be employed by NHS Boards or independent contractors (family dentists) and provide preventive advice and regular Fluoride Varnish applications.

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Data supplied by:

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