

# Designed to Smile – Monitoring Report

FOR THE SCHOOL YEAR 2018- 2019

MARIA MORGAN & MARY WILSON

## Contents

Chapter 1: Narrative Report .....	1
1. Activity in Nurseries and Schools .....	1
Toothbrushing Programme .....	1
Fluoride Varnish Application Programme .....	2
Educational resources for teachers .....	3
2. Oral Health Promotion with other Professions .....	3
Collaboration and Training .....	3
Lift the Lip Programme .....	4
Designed to Smile in Dental Practice .....	5
3. The Designed to Smile workforce .....	5
4. Challenges in programme delivery 2018/19 .....	7
Chapter 2: Technical Report .....	8
Summary related to performance indicators .....	8
5. Settings data – toothbrushing .....	9
6. Settings data – Fluoride Varnish .....	11
7. Toothbrushing activity .....	14
8. Coverage of the tooth brushing programme within settings by year group .....	15
9. Quality Assurance .....	19
10. Nursery and School Staff Training .....	21
11. Homepack provision .....	22
12. Fluoride Varnish Activity .....	24
13. Designed to Smile Workforce .....	18
14. Costing of the programme .....	19
Appendix – Additional Activity in Cwm Taf Health Board .....	20
Acknowledgements .....	21

## Chapter 1: Narrative Report

Designed to Smile is the Welsh Government's NHS programme to improve the oral health of young children. This is the second annual monitoring report following the refocus of Designed to Smile as outlined in the March 2017 Welsh Government document "Taking Oral Health Improvement and Dental Services Forward in Wales". This refocus developed the programme to concentrate on children age 0-7 years inclusive; thus monitoring reports now present data on children age 0-7 years only. This report provides information on the programme activity in the school year: September 2018- July 2019.

### 1. Activity in Nurseries and Schools

Across Wales, 1396 primary/infant schools and nurseries participated in D2S daily toothbrushing schemes. We are moving closer to our target of 100% of eligible nurseries and schools participating in the programme, up from 77% in 2017/18 to 82% in 2018/19.

In total, 90,977 children were signed up to brush their teeth with fluoride toothpaste at school or nursery. This is so important because 1 in 3 five-year-old children in Wales has dental decay and unless we keep up efforts every day, the next group of youngsters could have worse decay. A new dental survey of five-year olds in Wales is currently underway, which will help to further evaluate the programme.

44,217 children also had fluoride varnish applied at nursery or school, to give their teeth extra protection from decay. 188,709 toothbrushing home packs were distributed across Wales, to encourage brushing twice a day at home as well.

#### Toothbrushing Programme

**Quality Performance Indicator: 100% of eligible settings are invited to participate in the D2S toothbrushing programme**

School year: 2018/19	Percentage of eligible nurseries/schools that are participating across Wales	Number of children toothbrushing at nursery/school
<b>TOTAL</b>	<b>82</b>	<b>90602</b>
Aged under 4years	96.9	42519
Reception (4-5years)	92.9	18153
Year 1 (5-6years)	86.8	15539
Year 2 (6-7years)	78.6	14391

The toothbrushing programme has been positively maintained throughout Wales, despite low staffing levels (see Section 4: Challenges).

Regarding taking on new settings on the targeting list (by WIMD), the uptake of D2S has been in the most part encouraging. Some settings that previously refused have finally agreed to take part, though this has taken considerable effort by D2S staff. Anecdotally, staff feel that in many settings support for the D2S programme has improved and there is a very positive view of the programme. **During 2018/19, the D2S teams established toothbrushing programmes in new 83 settings. There are 67 targeted settings still to invite to participate, when D2S capacity allows.**

Settings that do resist/refuse joining the toothbrushing programme cite time constraints or curriculum pressures, or the education staff do not see it as their role to carry out toothbrushing. However, many teaching staff have embraced this role and this can be attributed to the D2S staff networking with the schools and establishing good links. Some schools that participate reluctantly require constant encouragement by D2S staff to maintain their commitment. **In 2018/19, 137 targeted settings refused to participate in the programme, and 29 settings withdrew from participating.**

D2S staff report that access to settings to carry out Quality Assurance visits has been difficult at times, and close, ongoing engagement with settings is required to enable these visits. These visits are important to ensure the quality standards of the programme, replenish stock and provide refresher training. **There were 68 settings requiring remedial measures during 2018/19, and two settings were suspended.**

For the toothbrushing programme to run safely and effectively, D2S staff have to provide training and support. **In 2018/19, 4436 nursery and school staff received training from D2S.**

In 2018/19, D2S had a strong focus on environmental sustainability with the publication of an environmental impact assessment of D2S. There was strong local D2S staff involvement to disseminate the information to schools and nurseries and encourage environmentally aware practice, particularly with regard to recycling toothbrushes. [Further information in the January 2019 newsletter.](#)

Children brushing their teeth at nursery or school should receive at least two toothbrushing home packs per year, to encourage brushing twice a day at home as well. **In 2018/19, 188,709 toothbrushing home packs were distributed via settings across Wales.** This roughly equates to 2 packs per child.

## Fluoride Varnish Application Programme

***Quality Performance Indicator: 100% of eligible settings are invited to participate in the D2S FV programme***

Despite staffing issues, D2S teams have dedicated efforts to maintain the FV programme and provide applications for as many children as possible. A total of **44,217 children participated in the FV programme in 2018/19, in 553 settings. 73% of targeted primary school settings are taking part in the Fluoride Varnish programme.**

The new fluoride varnish protocol in Hywel Dda UHB has proved successful, with an increase of 36 new settings in 2018-19. All settings are booked in July ahead of the school year for their two fluoride varnish visits, with dental nurses released from the clinical rota to support D2S.

The fluoride varnish teams in Betsi Cadwaladr UHB have encountered challenges with using portable equipment in the school settings as in some schools space is limited. This highlights the continual risk assessment and adaptation needed to deliver the programme.

### Educational resources for teachers

In 2018/19, a national workstream to produce educational resources to support teaching about oral health (learning about teeth, oral hygiene and healthy eating) was completed. In January 2019, a set of activity sheets suitable for Foundation Phase were made available via the Welsh Government's Hwb website. In June 2019, a comprehensive package for two lessons (Key Stage 2 level), including teacher presentations, worksheets and homework activities, was added to the Hwb. These resources can be found [here](#).

## 2. Oral Health Promotion with other Professions

### Collaboration and Training

Collaboration with the Welsh Network of Healthy Schools continues to grow on both a national and local level. Designed to Smile teams write accreditation reports for the Healthy Schools National Quality Awards, following the newly reviewed, nationally agreed criteria. D2S staff also provide training for 0-3 settings taking part in the Healthy and Sustainable Pre School scheme.

***Quality Performance Indicator: All Health Visitor and Childcare accredited courses in Wales have an oral health training component within the curriculum, with an offer of D2S involvement***

Designed to Smile teams provide formal lectures and workshops to student health visitor and student midwife courses in universities across Wales.

Local colleges that deliver accredited childcare courses receive D2S input to ensure those working with pre-school children are educated on the D2S programme and oral health education. Locally, there are rolling agreements with higher education providers to attend once a year to deliver sessions to all childcare students, childcare assessors and early years' staff.

***Quality Performance Indicator: An Oral Health training session is offered at least once every two years to all practising Health Visitors/School nurses, as well as when possible community dietitians, social workers, paediatric nurses etc.***

Practising health visitors and midwives receive training from local D2S teams using nationally developed training packages. For example, in Hywel Dda, four sessions were delivered to the midwife county teams. Close partnership working exists at the local level across Wales, with D2S providing home pack and feeder cups resources to health visiting teams.

No. of D2S toothbrushing home packs distributed by Health Visitors	No of D2S feeder cups distributed by Health Visitors
16390	8286

Other professional groups that D2S works closely with to provide oral health promotion training, support and partnerships:

- Dietitians
- School Nurses
- Flying Start support workers
- First 1000 days
- Minority and Vulnerable groups support networks
- Foster carers and social service teams
- Agored Cymru

D2S teams are key members of Local Health Boards' oral health promotion steering groups, nutrition and infant feeding groups. The meetings encourage and maintain integrated working regarding oral health promotion for children.

In Aneurin Bevan UHB, the successful pilot programme using D2S therapists to see vulnerable children aged 0-3 using Direct Access in Mobile Dental Units has now been expanded and been removed from D2S activity. It is now funded by Transformation Fund monies.

In some LHBs, D2S staff continue to provide targeted one-to-one Oral Health Education to children aged 0-5 and their families who have been referred for dental care under general anaesthesia or sedation through GA Triage pathways.

The Bangor D2S team are involved with the Children's First Pioneer Project at Maesygerchan.

### [Lift the Lip Programme](#)

In the first half of 2019, six Train the Trainer sessions were delivered, with **52 D2S Dental Health Educators trained across all health boards**. A national presentation template and accompanying resources were created. The newly developed national sharepoint for D2S staff is being put to good use to share standardised resources. An 'Oral Health Guide for Health Visitors' booklet has been produced, which is a go-to resource of dental information relevant for babies and early childhood. This complements the face-to-face training.

In 2018/19, all-Wales D2S leaflets were redesigned and updated to align with the core contact visits within the Healthy Child Wales programme, and are being supplied to our partners in health visiting and midwifery.

D2S staff continue to work to advocate for and maintain existing referral pathways for vulnerable children/ children with evidence of dental caries to access timely dental services. Referrals coming from Flying Start Hubs, health visitors and the Fluoride Varnish programme. This work continues to

be challenging, in getting support from LHB Primary Care departments to secure a referral pathway for Health Visiting teams who identify children at high risk of dental decay due to poor access to general dental services in some areas, differing acceptance criteria of the Community Dental Services across Wales, and prioritisation of this issue.

## Designed to Smile in Dental Practice

**Quality Performance Indicator: All NHS dental practices that have registered with the HEIW e-learning programme 'Designed to Smile in Practice' are offered an in-practice D2S presentation.**

The e-learning programme became available to all dental teams in Wales in Autumn 2018. As of June 2019, 91 dental professionals from 41 practices were registered. This is in addition to the 2018/19 cohort of Dental Foundation trainees (n= approx. 70) required to complete the programme between December 2018 and May 2019. In February 2019, the website was receiving an average of 240 visits per day.

There is an automatic offer of the D2S practice visit within the e-learning package, and so this performance indicator is being met. The practice have to complete a simple 'Contact Us' box to send a request for a practice session to the most local D2S team.

There has been low uptake for the D2S session by dental practices for a few reasons:

- 1) The practice has recently had training from/on D2S (the national Public Health Wales lead for D2S gave an evening HEIW lecture in March 2019, which was well attended; the previous year there was a national HEIW webinar, also well attended).
- 2) The practice choose the alternative virtual session created and provided by D2S
- 3) The practice do not wish to have a session

Dental practices across Wales receive up to date information about D2S from a variety of sources, including: the Public Health Wales newsletter to Local Dental Committees; LHB Primary Care Newsletters; Primary Care One weekly updates; Welsh Government's Dental Digest; the D2S website and twitter accounts; British Dental Association representation at the national D2S steering committee; HEIW learning events; D2S stands at the annual Dental Symposium.

## 3. The Designed to Smile workforce

Across Wales, approximately **83 whole time equivalent staff work for D2S**. D2S demonstrates effective use of skill mix in the workforce mostly consisting of Dental Health Support Workers (non-GDC) and Dental Nurses.

Role	WTE	%
Administrator/ Driver	5.9	7.2
Dental Health Support Worker	25.8	31.6
Oral Health Educator/Promoter (Dental Nurse)	38.1	46.7
Dental therapist/hygienist	2.3	2.8
D2S Lead	9.9	12.0
Senior Dental Officer	0.5	0.6
<b>WALES</b>	<b>82.5</b>	<b>100</b>

The Designed to Smile National Managers meetings continue to be a valuable opportunity to ensure the programme remains focussed on the evidence base, and enable standardisation, information sharing across local teams and continuous improvement.

Designed to Smile responded to three consultations in 2018/19:

- Welsh Government guidance on food and nutrition for childcare settings: [gov.wales/childcarefood](http://gov.wales/childcarefood)
- Healthy Weight, Healthy Wales (Welsh Government long-term strategy)
- National Curriculum for Wales 2022

The 2019 D2S staff study day (the third annual event) was held at the Dragon Hotel, Swansea, and hosted by the ABMUHB D2S team. The programme was full of varied lectures and workshops on topics specific to the learning needs of D2S staff. Over 80 staff attended and all the feedback was very positive.



Designed to Smile staff continue to develop their skills and knowledge for their continuing professional development. Examples include:

- Nutrition Skills for Life courses
- Two D2S managers in BCU HB became Making Every Contact Count trainers to then upskill their D2S teams to motivate people to change to a healthier lifestyle
- Two members of Cwm Taf/Cardiff and Vale D2S team completed their Silver IQT and ILM level 2.



The author of the D2S Environmental Impact Assessment, Dr Bethan Bowden, Specialty Registrar, Public Health Wales (pictured), was chosen to present this project at UK Royal College of Public Health Symposium in London, and the British Assoc. Study of Community Dentistry Conference in Manchester. She received the 'Best Implementation in Practice' Award at the 2019 Annual Specialty Training Conference.

A key member of the D2S team, Mrs Maria Morgan, Lead for D2S Monitoring in the Welsh Oral Health Information Unit, was elected incoming President of the British Assoc. Study of Community Dentistry. This is a great achievement, and D2S will be showcased during her tenure.



#### 4. Challenges in programme delivery 2018/19

As mentioned earlier in this report, considerable challenges in terms of staff capacity have been felt in 2018/19. This was noted particularly in AB UHB (due to realignment of a number of staff to a transformation fund project), and in all health boards due to long term staff sickness and maternity leave. In some areas, the D2S workforce was reduced by up to a half for several months. Financially, staff salaries have increased due to NHS pay uplifts, and progression through the salary spines. Vehicle expenses have increased due to leasing arrangements. This has meant that the teams have been under additional pressures given that there is little room for contingency.

As of April 1<sup>st</sup> Cwm Taf University Health Board (UHB) repatriated the Community Dental Service (including D2S) from Cardiff and Vale UHB which resulted in a split in staff, change of bases, along with a new management structure. This has seen significant changes for both Health Boards which has impacted on the Designed to Smile team, and is still ongoing into 2020. Likewise, changes in the boundaries of ABM UHB (now Swansea Bay UHB) resulted in a movement of D2S staff, budgets and premises from the Bridgend Local Authority area to Cwm Taf Morgannwg UHB in April 2019.

D2S teams note that there are still issues with inappropriate snacking in several settings and, though we are working closely with Healthy Schools in these circumstances, resistance to change can be high. Occasionally improvements are made, only for poor habits to reappear quickly. It is hoped that the Welsh Government guidance on food and nutrition for childcare settings will have an impact, and D2S has supported dissemination of this. Similar work is beginning to update the food and drinks regulations in schools, which D2S will support.

The changes with General Data Protection Regulations have caused a number of barriers with the smooth running of the programme, in terms of obtaining class lists, and has delayed a number of new settings taking up the programme. A clear directive to local authorities about sharing of information with NHS programmes would be beneficial.

## Chapter 2: Technical Report

### Summary related to performance indicators

INDICATOR	For nurseries and schools	2018-19	2017-18
1	100% of settings in the most, 2nd and middle deprived quintiles are invited to participate in D2S toothbrushing	82.1	76.8
	<i>In settings taking part and with applicable age range:</i>		
2	>90% participating in toothbrushing from nursery –Year 1		
	aged under 4	96.9	94.1
	aged 4-5 (Reception)	92.9	94.0
	aged 5-6 (Year 1)	86.8	85.1
3	>70% continue toothbrushing into Year 2	78.6	75.2
4	>90% of settings receive 2 fluoride varnish application visits per year up to Year 2 (for children 3yrs+)	89.8	89.7
5	100% settings have appropriate toothbrushing QA visits/ follow-ups	99.4	99.0
6	100% settings receive staff training on the toothbrushing scheme yearly and more frequently when new teaching staff begin supervising	55.4	69.8

## 5. Settings data – toothbrushing

Table 1 Number of appropriately targeted settings taking part in toothbrushing

HEALTH BOARD	Number of settings taking part in TB	Total number of settings that should be targeted	as a % of those in 3 most deprived areas	2017/18 as comparator
Abertawe Bro Morgannwg	205	237	86.5	83.3
Aneurin Bevan	227	305	74.4	68.3
Betsi Cadwaladr	272	300	90.7	85.7
Cardiff and Vale	120	169	71.0	73.7
Cwm Taf	125	139	89.9	75.9
Hywel Dda	187	219	85.4	76.3
Powys	34	56	60.7	58.6
<b>WALES</b>	<b>1170</b>	<b>1425</b>	<b>82.1</b>	<b>76.8</b>

1425 settings (nurseries/schools) were eligible for targeting for D2S, as they were located in either the most, 2nd and middle deprived areas according to WIMD 2014, or a setting for children with additional learning needs. It is worth noting that this number is smaller than the previous year due to:

- Reconfiguration of settings by WOHIU has meant that some sites are now counted as one setting rather than the multiple settings counted previously
- A number of schools who have merged to form 'super-schools' has reduced the overall number of settings.
- 20 settings have closed during the reporting period

A total of 1170 settings eligible for targeting are taking part in the tooth brushing element of Designed to Smile. This is a slight reduction when compared with the previous year (n=1216), but the percentage of eligible settings taking part has slightly increased. (Table 1).

Overall, 47.5% of all Welsh primary schools and nurseries are covered by the scheme (Table 2).

Table 2 Number of targeted settings taking part as a percentage of all settings across Wales

HEALTH BOARD	Number of settings taking part in TB	Total number of settings across Wales	as a % of those in 3 most deprived areas
Abertawe Bro Morgannwg	205	354	57.9
Aneurin Bevan	227	423	53.7
Betsi Cadwaladr	272	624	43.6
Cardiff and Vale	120	328	36.6
Cwm Taf	125	214	58.4
Hwyel Dda	187	373	50.1
Powys	34	148	23.0
<b>WALES</b>	<b>1170</b>	<b>2464</b>	<b>47.5</b>

This does not include toothbrushing activity for settings funded from additional sources:

- 8 settings covered by Seren O Wen in the Betsi Cadwaladr health board area
- 46 settings (2814 children) covered by additional funding in Cwm Taf Health Board (see Appendix).

Table 3 Settings on the targeting list – taking part and not

HEALTH BOARD	Yes	Not yet targeted	Refused	Closed	Withdrawn	Suspended by D2S	Total
Abertawe Bro Morgannwg	205	1	23	8	0	0	237
Aneurin Bevan	227	27	45	1	5	0	305
Betsi Cadwaladr	272	1	23	1	3	0	300
Cardiff and Vale	120	23	13	4	8	1	169
Cwm Taf	125		8	2	4	0	139
Hwyel Dda	187	5	15	4	7	1	219
Powys	34	10	10	0	2	0	56
<b>WALES</b>	<b>1170</b>	<b>67</b>	<b>137</b>	<b>20</b>	<b>29</b>	<b>2</b>	<b>1425</b>

Currently, there are 255 settings on the targeting list which are not tooth brushing (i.e. 1425-1170). 137 (10.1%) of those offered toothbrushing to date have refused to take part (137/1425-67).

In 2018-19, 67 settings have not yet been targeted, this compares favourably with the 2017-18 figure of 150. In other words, during 2018-19, 83 new settings were established by the D2S teams to start the programme when they hadn't been involved previously.

Table 4 Settings NOT on the targeting list

HEALTH BOARD	Taking part in tooth brushing
ABMU	52
Aneurin Bevan	11
Betsi Cadwaladr	65
Cardiff and Vale	38
Cwm Taf	17
Hwyel Dda	34
Powys	9
<b>WALES</b>	<b>226</b>

226 settings are taking part in the Designed to Smile supervised tooth brushing due to reasons other than WIMD classification. For example, those located in less deprived areas who have catchment areas which include the more deprived areas of Wales.

## 6. Settings data – Fluoride Varnish

553 (38.8%) of nurseries and primary schools in areas categorized as middle, second most and most deprived according to WIMD 2014 are in receipt of the fluoride varnish element of the programme; this is a 7% increase when compared with the previous reporting year (Table 5).

Table 5 Number of appropriately targeted settings taking part in Fluoride Varnish programme

HEALTH BOARD	Number of settings taking part in FV	Total number of settings that should be targeted	as a % of those in 3 most deprived areas	2017/18 as comparator
Abertawe Bro Morgannwg	106	237	44.7	43.9
Aneurin Bevan	123	305	40.3	35.4
Betsi Cadwaladr	77	300	25.7	17.1
Cardiff and Vale	75	169	44.4	46.2
Cwm Taf	67	139	48.2	35.8
Hywel Dda	86	219	39.3	21.6
Powys	19	56	33.9	41.4
<b>WALES</b>	<b>553</b>	<b>1425</b>	<b>38.8</b>	<b>31.9</b>

Most of the fluoride varnish activity takes place in primary school settings –when the targeting data is mapped against eligible primary school settings – coverage rises to 72.5% (Table 5a).

Table 5a Number of appropriately targeted settings taking part as a percentage of the PRIMARY school age targeting denominator

HEALTH BOARD	number of settings FV	Total number of Primary settings that should be targeted	as a % of those in 3 most deprived areas
Abertawe Bro Morgannwg	106	117	90.6
Aneurin Bevan	123	146	84.2
Betsi Cadwaladr	77	178	43.3
Cardiff and Vale	75	78	96.2
Cwm Taf	67	103	65.0
Hywel Dda	86	116	74.1
Powys	19	25	76.0
<b>WALES</b>	<b>553</b>	<b>763</b>	<b>72.5</b>

22.4% of all Welsh primary schools and nurseries are covered by the fluoride varnish element of the scheme (Table 6); this rises to 44.7% when the denominator only includes primary settings (Table 6a).

Table 6 Number of appropriately targeted settings taking part as a percentage of all settings across Wales

HEALTH BOARD	number of settings FV	Total number of settings across Wales	as a % of those across Wales
Abertawe Bro Morgannwg	106	354	29.9
Aneurin Bevan	123	423	29.1
Betsi Cadwaladr	77	624	12.3
Cardiff and Vale	75	328	22.9
Cwm Taf	67	214	31.3
Hywel Dda	86	373	23.1
Powys	19	148	12.8
<b>WALES</b>	<b>553</b>	<b>2464</b>	<b>22.4</b>

Table 6a Number of appropriately targeted settings taking part as a percentage of all PRIMARY school settings across Wales

HEALTH BOARD	number of settings FV	Total number of Primary school settings across Wales	as a % of those across Wales
Abertawe Bro Morgannwg	106	174	60.9
Aneurin Bevan	123	188	65.4
Betsi Cadwaladr	77	347	22.2
Cardiff and Vale	75	142	52.8
Cwm Taf	67	115	58.3
Hywel Dda	86	191	45.0
Powys	19	81	23.5
<b>WALES</b>	<b>553</b>	<b>1238</b>	<b>44.7</b>

Currently, there are 872 settings on the targeting list that are not participating in the fluoride varnish programme (i.e. 1425-553, Table 7).

92 settings (who are eligible to be offered fluoride varnish) have refused to take part, and 15 settings have closed during the reporting period.

For activity relating to the 40 settings in Cwm Taf see the Appendix.

Table 7 Settings on the targeting list – those taking part and those not

HEALTH BOARD	Yes	Not appropriate age group	Closed	Not yet targeted	Refused	Total
ABMU	106	101	8	4	18	237
Aneurin Bevan	123	157	1	0	24	305
Betsi Cadwaladr	77	122	0	82	19	300
Cardiff and Vale	75	84	0	6	4	169
Cwm Taf	67	69	2	1	0	139
Hywel Dda	86	1	4	111	17	219
Powys	19	17	0	10	10	56

<b>WALES</b>	<b>553</b>	<b>551</b>	<b>15</b>	<b>214</b>	<b>92</b>	<b>1425</b>
--------------	------------	------------	-----------	------------	-----------	-------------

There were 55 settings participating in the fluoride varnish programme during 2018/19 who are not on the targeting lists (and therefore not in the three most deprived quintiles according to WIMD 2014).

Table 8 Settings NOT on the targeting list

<b>HEALTH BOARD</b>	<b>Taking part in Fluoride Varnish</b>
ABMU	18
Aneurin Bevan	6
Betsi Cadwaladr	8
Cardiff and Vale	11
Cwm Taf	4
Hywel Dda	5
Powys	3
<b>WALES</b>	<b>55</b>

## 7. Toothbrushing activity

90,977 children have parental/guardian consent to take part in the Designed to Smile toothbrushing programme. 90,602 of these children (42,519 aged less than 4; 18,153 aged 4-5, 15,539 aged 5-6 and 14,391 aged 6-7) are currently brushing across Wales (Table 9).

Table 9 Activity related to the toothbrushing element of D2S – all settings

AREA	Total number of children eligible during the reporting period	Total number of these children with consent	Children aged less than 4 years?	Children aged 4-5 years (Reception)?	Children aged 5-6 (School Year 1)?	Children aged 6-7 (in School Year 2)?	Number of staff receiving toothbrushing/OHE training
<b>ABMU</b>	<b>21832</b>	<b>19759</b>	<b>9742</b>	<b>3499</b>	<b>3073</b>	<b>3296</b>	<b>1320</b>
Abertawe - Swansea	10099	9024	4164	1613	1480	1674	972
Castell-nedd Port Talbot - Neath Port Talbot	5513	4866	2533	834	731	762	130
Pen-y-bont ar Ogwr - Bridgend	6220	5869	3045	1052	862	860	218
<b>Aneurin Bevan</b>	<b>19527</b>	<b>18265</b>	<b>7094</b>	<b>3903</b>	<b>3618</b>	<b>3503</b>	<b>436</b>
Blaenau Gwent - Blaenau Gwent	2881	2645	1413	468	371	350	45
Caerphilly - Caerphilly	6804	6422	2343	1366	1367	1338	156
Casnewydd - Newport	4360	4035	1415	925	871	826	140
Sir Fynwy - Monmouthshire	953	849	373	171	129	140	9
Tor-faen - Torfaen	4529	4314	1550	973	880	849	86
<b>Betsi Cadwaladr</b>	<b>19008</b>	<b>18252</b>	<b>8616</b>	<b>3921</b>	<b>3043</b>	<b>2588</b>	<b>2241</b>
Conwy - Conwy	2991	2836	1449	542	473	372	377
Gwynedd - Gwynedd	3364	3262	1410	655	660	537	410
Sir Ddinbych - Denbighshire	2429	2347	1506	452	215	164	315
Sir y Fflint - Flintshire	3485	3306	1299	838	583	530	342
Sir Ynys Mon - Anglesey	2588	2374	957	517	473	409	300
Wrexham - Wrexham	4151	4127	1995	917	639	576	497
<b>Cardiff and Vale</b>	<b>13874</b>	<b>13068</b>	<b>6517</b>	<b>2766</b>	<b>2133</b>	<b>1672</b>	<b>46</b>
Bro Morgannwg - the Vale of Glamorgan	3371	3205	1736	529	465	464	12
Caerdydd - Cardiff	10503	9863	4781	2237	1668	1208	34
<b>Cwm Taf</b>	<b>9499</b>	<b>9226</b>	<b>4869</b>	<b>1549</b>	<b>1409</b>	<b>1409</b>	<b>99</b>
Merthyr Tudfil - Merthyr Tydfil	2520	2404	1442	416	291	291	21
Rhondda Cynon Taf - Rhondda Cynon Taff	6979	6822	3427	1133	1118	1118	78
<b>Hywel Dda</b>	<b>11068</b>	<b>10038</b>	<b>4596</b>	<b>2023</b>	<b>1870</b>	<b>1546</b>	<b>236</b>
Sir Benfro - Pembrokeshire	3312	2985	1388	574	527	504	53
Sir Ceredigion - Ceredigion	1690	1453	699	360	268	126	29
Sir Gaerfyrddin - Carmarthenshire	6066	5600	2509	1089	1075	916	154
<b>Powys</b>	<b>2467</b>	<b>2369</b>	<b>1085</b>	<b>492</b>	<b>393</b>	<b>377</b>	<b>58</b>
<b>WALES</b>	<b>97275</b>	<b>90977</b>	<b>42519</b>	<b>18153</b>	<b>15539</b>	<b>14391</b>	<b>4436</b>

Overall, the consent rates remain high – Wales 93.5% (90,977/97,275). The consent rates do vary by health board ranging from 90.5% in ABMU to 97.1% in Cwm Taf.

Of the 90,977 children taking part:

- 46.7% are aged less than 4
- 20.0% are reception age (aged 4-5)
- 17.1% come from school year 1 (aged 5-6)
- 15.8% come from school year 2 (aged 6-7)



## 8. Coverage of the tooth brushing programme within settings by year group

Table 10 Percentage settings with children under 4 covered by the programme

AREA	Number of settings taking part with children aged less than 4	brushing	% coverage under 4s
<b>Abertawe Bro Morgannwg</b>	<b>253</b>	<b>249</b>	<b>98.4</b>
Abertawe - Swansea	101	97	96.0
Castell-nedd Port Talbot - Neath Port Talbot	72	72	100.0
Pen-y-bont ar Ogwr - Bridgend	80	80	100.0
<b>Aneurin Bevan</b>	<b>241</b>	<b>219</b>	<b>90.9</b>
Blaenau Gwent - Blaenau Gwent	44	38	86.4
Caerffili - Caerphilly	90	85	94.4
Casnewydd - Newport	52	45	86.5
Sir Fynwy - Monmouthshire	15	13	86.7
Tor-faen - Torfaen	40	38	95.0
<b>Betsi Cadwaladr</b>	<b>318</b>	<b>318</b>	<b>100.0</b>
Conwy - Conwy	49	49	100.0
Gwynedd - Gwynedd	68	68	100.0
Sir Ddinbych - Denbighshire	41	41	100.0
Sir y Fflint - Flintshire	49	49	100.0
Sir Ynys Mon - Isle of Anglesey	42	42	100.0
Wrexham - Wrexham	69	69	100.0
<b>Cardiff and Vale</b>	<b>140</b>	<b>140</b>	<b>100.0</b>
Bro Morgannwg - the Vale of Glamorgan	38	38	100.0
Caerdydd - Cardiff	102	102	100
<b>Cwm Taf</b>	<b>143</b>	<b>137</b>	<b>95.8</b>
Merthyr Tudfil - Merthyr Tydfil	42	40	95.2
Rhondda Cynon Taf - Rhondda Cynon Taff	101	97	96.0
<b>Hywel Dda</b>	<b>209</b>	<b>199</b>	<b>95.2</b>
Sir Benfro - Pembrokeshire	59	54	91.5
Sir Ceredigion - Ceredigion	29	28	96.6
Sir Gaerfyrddin - Carmarthenshire	121	117	96.7
<b>Powys</b>	<b>32</b>	<b>32</b>	<b>100.0</b>
<b>WALES</b>	<b>1336</b>	<b>1294</b>	<b>96.9</b>

1336 (out of the 1396) settings have children aged less than 4 attending and 96.9% (1294) of these settings have children aged less than 4 brushing.

Table 11 Percentage settings with children reception age (4-5) covered by the programme

	Number of settings with children aged 4-5 years (Reception)	Number of settings where children aged 4- 5 are brushing	% coverage 4- 5 years
<b>Abertawe Bro Morgannwg</b>	<b>130</b>	<b>125</b>	<b>96.2</b>
Abertawe - Swansea	58	57	98.3
Castell-nedd Port Talbot - Neath Port Talbot	33	31	93.9
Pen-y-bont ar Ogwr - Bridgend	39	37	94.9
<b>Aneurin Bevan</b>	<b>145</b>	<b>125</b>	<b>86.2</b>
Blaenau Gwent - Blaenau Gwent	26	16	61.5
Caerffili - Caerphilly	56	52	92.9
Casnewydd - Newport	32	27	84.4
Sir Fynwy - Monmouthshire	6	6	100.0
Tor-faen - Torfaen	25	24	96.0
<b>Betsi Cadwaladr</b>	<b>193</b>	<b>179</b>	<b>92.7</b>
Conwy - Conwy	21	19	90.5
Gwynedd - Gwynedd	51	49	96.1
Sir Ddinbych - Denbighshire	18	15	83.3
Sir y Fflint - Flintshire	34	33	97.1
Sir Ynys Mon - Isle of Anglesey	36	33	91.7
Wrecsam - Wrexham	33	30	90.9
<b>Cardiff and Vale</b>	<b>79</b>	<b>77</b>	<b>97.5</b>
Bro Morgannwg - the Vale of Glamorgan	16	16	100.0
Caerdydd - Cardiff	63	61	96.8
<b>Cwm Taf</b>	<b>68</b>	<b>61</b>	<b>89.7</b>
Merthyr Tudfil - Merthyr Tydfil	18	13	72.2
Rhondda Cynon Taf - Rhondda Cynon Taff	50	48	96.0
<b>Hywel Dda</b>	<b>113</b>	<b>109</b>	<b>96.5</b>
Sir Benfro - Pembrokeshire	27	27	100.0
Sir Ceredigion - Ceredigion	19	19	100.0
Sir Gaerfyrddin - Carmarthenshire	67	63	94.0
<b>Powys</b>	<b>23</b>	<b>22</b>	<b>95.7</b>
<b>WALES</b>	<b>751</b>	<b>698</b>	<b>92.9</b>

751 (out of the 1396) settings have children aged between 4 and 5 attending and 93% (698) of these settings have children aged between 4 and 5 brushing on a regular basis.

Table 12 Percentage settings with children Year 1 age (5-6) covered by the programme

	Number of settings with children aged 5-6 years	Number of settings where children aged 5-6 are brushing	% coverage 5-6 years
<b>Abertawe Bro Morgannwg</b>	<b>119</b>	<b>114</b>	<b>95.8</b>
Abertawe - Swansea	57	55	96.5
Castell-nedd Port Talbot - Neath Port Talbot	31	30	96.8
Pen-y-bont ar Ogwr - Bridgend	31	29	93.5
<b>Aneurin Bevan</b>	<b>138</b>	<b>116</b>	<b>84.1</b>
Blaenau Gwent - Blaenau Gwent	25	14	56.0
Caerffili - Caerphilly	56	53	94.6
Casnewydd - Newport	26	23	88.5
Sir Fynwy - Monmouthshire	6	5	83.3
Tor-faen - Torfaen	25	21	84.0
<b>Betsi Cadwaladr</b>	<b>184</b>	<b>142</b>	<b>77.2</b>
Conwy - Conwy	22	15	68.2
Gwynedd - Gwynedd	51	45	88.2
Sir Ddinbych - Denbighshire	18	8	44.4
Sir y Fflint - Flintshire	34	23	67.6
Sir Ynys Mon - Isle of Anglesey	32	28	87.5
Wrexham - Wrexham	27	23	85.2
<b>Cardiff and Vale</b>	<b>65</b>	<b>63</b>	<b>96.9</b>
Bro Morgannwg - the Vale of Glamorgan	15	13	86.7
Caerdydd - Cardiff	50	50	100.0
<b>Cwm Taf</b>	<b>68</b>	<b>57</b>	<b>83.8</b>
Merthyr Tudfil - Merthyr Tydfil	18	9	50.0
Rhondda Cynon Taf - Rhondda Cynon Taff	50	48	96.0
<b>Hywel Dda</b>	<b>113</b>	<b>105</b>	<b>92.9</b>
Sir Benfro - Pembrokeshire	27	26	96.3
Sir Ceredigion - Ceredigion	19	18	94.7
Sir Gaerfyrddin - Carmarthenshire	67	61	91.0
<b>Powys</b>	<b>23</b>	<b>19</b>	<b>82.6</b>
<b>WALES</b>	<b>710</b>	<b>616</b>	<b>86.8</b>

710 (out of the 1396) settings have children aged between 5 and 6 attending and 86.8% (616) of these settings have children aged between 5 and 6 brushing on a regular basis.

Table 13 Percentage settings with children Year 2 age (6-7) covered by the programme

	Number of settings with children aged 6-7 years	Number of settings where children aged 6-7 are brushing	% coverage 6-7 years
<b>Abertawe Bro Morgannwg</b>	<b>118</b>	<b>113</b>	<b>95.8</b>
Abertawe - Swansea	58	56	96.6
Castell-nedd Port Talbot - Neath Port Talbot	30	29	96.7
Pen-y-bont ar Ogwr - Bridgend	30	28	93.3
<b>Aneurin Bevan</b>	<b>137</b>	<b>103</b>	<b>75.2</b>
Blaenau Gwent - Blaenau Gwent	25	13	52.0
Caerffili - Caerphilly	56	46	82.1
Casnewydd - Newport	25	22	88.0
Sir Fynwy - Monmouthshire	6	5	83.3
Tor-faen - Torfaen	25	17	68.0
<b>Betsi Cadwaladr</b>	<b>191</b>	<b>125</b>	<b>65.4</b>
Conwy - Conwy	22	13	59.1
Gwynedd - Gwynedd	51	38	74.5
Sir Ddinbych - Denbighshire	18	8	44.4
Sir y Fflint - Flintshire	34	21	61.8
Sir Ynys Mon - Isle of Anglesey	36	23	63.9
Wrexham - Wrexham	30	22	73.3
<b>Cardiff and Vale</b>	<b>60</b>	<b>50</b>	<b>83.3</b>
Bro Morgannwg - the Vale of Glamorgan	17	13	76.5
Caerdydd - Cardiff	43	37	86.0
<b>Cwm Taf</b>	<b>64</b>	<b>57</b>	<b>89.1</b>
Merthyr Tudfil - Merthyr Tydfil	14	9	64.3
Rhondda Cynon Taf - Rhondda Cynon Taff	50	48	96.0
<b>Hywel Dda</b>	<b>110</b>	<b>87</b>	<b>79.1</b>
Sir Benfro - Pembrokeshire	27	21	77.8
Sir Ceredigion - Ceredigion	18	14	77.8
Sir Gaerfyrddin - Carmarthenshire	65	52	80.0
<b>Powys - Powys</b>	<b>23</b>	<b>18</b>	<b>78.3</b>
<b>WALES</b>	<b>703</b>	<b>553</b>	<b>78.7</b>

703 (out of the 1396) settings have children aged between 6 and 7 attending and 78.7% (553) of these settings have children aged between 6 and 7 brushing on a regular basis.

## 9. Quality Assurance

Table 14 Settings conforming to QA requirements in the year

AREA	Total number of settings brushing	Number conforming with QA requirements	% conforming with QA	Number of settings not conforming
<b>ABMU</b>	<b>257</b>	<b>250</b>	<b>97.3</b>	<b>6</b>
Abertawe - Swansea	104	98	94.2	6
Castell-nedd Port Talbot - Neath Port Talbot	73	72	98.6	
Pen-y-bont ar Ogwr - Bridgend	80	80	100.0	
<b>Aneurin Bevan</b>	<b>238</b>	<b>237</b>	<b>99.6</b>	<b>1</b>
Blaenau Gwent - Blaenau Gwent	40	40	100.0	
Caerffili - Caerphilly	89	88	98.9	1
Casnewydd - Newport	51	51	100.0	
Sir Fynwy - Monmouthshire	16	16	100.0	
Tor-faen - Torfaen	42	42	100.0	
<b>Betsi Cadwaladr</b>	<b>337</b>	<b>337</b>	<b>100.0</b>	
Conwy - Conwy	51	51	100.0	
Gwynedd - Gwynedd	79	79	100.0	
Sir Ddinbych - Denbighshire	42	42	100.0	
Sir y Fflint - Flintshire	49	49	100.0	
Sir Ynys Mon - Anglesey	46	46	100.0	
Wrecsam - Wrexham	70	70	100.0	
<b>Cardiff and Vale</b>	<b>158</b>	<b>158</b>	<b>100.0</b>	
Bro Morgannwg - the Vale of Glamorgan	38	38	100.0	
Caerdydd - Cardiff	120	120	100.0	
<b>Cwm Taf</b>	<b>142</b>	<b>142</b>	<b>100.0</b>	<b>0</b>
Merthyr Tudfil - Merthyr Tydfil	42	42	100.0	0
Rhondda Cynon Taf - Rhondda Cynon Taff	10	100	1000.0	
<b>Hywel Dda</b>	<b>221</b>	<b>220</b>	<b>99.5</b>	<b>1</b>
Sir Benfro - Pembrokeshire	59	58	98.3	1
Sir Ceredigion - Ceredigion	38	38	100.0	
Sir Gaerfyrddin - Carmarthenshire	124	124	100.0	
<b>Powys - Powys</b>	<b>43</b>	<b>43</b>	<b>100.0</b>	
<b>WALES</b>	<b>1396</b>	<b>1387</b>	<b>99.4</b>	<b>8</b>

99.4% (1387) of settings are conforming to Designed to Smile quality assurance processes.

Table 15 Settings where remedial measures have been required

AREA	Total settings brushing (targeted and not)	Number of settings where remedial measures >0	Proportion of settings with remedial measures
<b>ABMU</b>	<b>257</b>	<b>3</b>	<b>1.2</b>
Abertawe - Swansea	104	2	1.9
Castell-nedd Port Talbot - Neath Port Talbot	73	1	1.4
Pen-y-bont ar Ogwr - Bridgend	80	0	0.0
<b>Aneurin Bevan</b>	<b>238</b>	<b>9</b>	<b>3.8</b>
Blaenau Gwent - Blaenau Gwent	40	2	5.0
Caerffili - Caerphilly	89	3	3.4
Casnewydd - Newport	51	1	2.0
Sir Fynwy - Monmouthshire	16	1	6.3
Tor-faen - Torfaen	42	2	4.8
<b>Betsi Cadwaladr</b>	<b>337</b>	<b>0</b>	<b>0.0</b>
Conwy - Conwy	51	0	0.0
Gwynedd - Gwynedd	79	0	0.0
Sir Ddinbych - Denbighshire	42	0	0.0
Sir y Fflint - Flintshire	49	0	0.0
Sir Ynys Mon - Anglesey	46	0	0.0
Wrexham - Wrexham	70	0	0.0
<b>Cardiff and Vale</b>	<b>158</b>	<b>17</b>	<b>10.8</b>
Bro Morgannwg - the Vale of Glamorgan	38	2	5.3
Caerdydd - Cardiff	120	15	12.5
<b>Cwm Taf</b>	<b>142</b>	<b>31</b>	<b>21.8</b>
Merthyr Tudfil - Merthyr Tydfil	42	1	2.4
Rhondda Cynon Taf - Rhondda Cynon Taff	100	30	30.0
<b>Hywel Dda</b>	<b>221</b>	<b>5</b>	<b>2.3</b>
Sir Benfro - Pembrokeshire	59	2	3.4
Sir Ceredigion - Ceredigion	38	0	0.0
Sir Gaerfyrddin - Carmarthenshire	124	3	2.4
<b>Powys - Powys</b>	<b>43</b>	<b>3</b>	<b>7.0</b>
<b>WALES</b>	<b>1396</b>	<b>68</b>	<b>4.9</b>

4.9% (68) of settings required remedial measures during the reporting year. There was a wide range of experience across health boards, with no settings requiring remedial measures in Betsi Cadwaladr to 21.8% (31/142) of settings in the Cwm Taf health board area (Table 15).

A new Quality Assurance checklist, aiming to standardise what is recorded as a remedial measure was introduced in Summer 2019. As well as improving the quality of the QA process, it will also aim to improve the local reporting in future monitoring exercises.

## 10. Nursery and School Staff Training

Table 16 Supervised toothbrushing staff training at Settings

AREA	Total settings brushing (targeted and not)	Number of settings with no staff trained	% settings with no training	Number of settings with 1-4	Number of settings with 5 or more staff
<b>ABMU</b>	<b>257</b>	<b>72</b>	<b>28.0</b>	<b>78</b>	<b>105</b>
Abertawe - Swansea	104	3	2.9	23	77
Castell-nedd Port Talbot - Neath Port Talbot	73	36	49.3	26	10
Pen-y-bont ar Ogwr - Bridgend	80	36	45.0	29	18
<b>Aneurin Bevan</b>	<b>238</b>	<b>143</b>	<b>60.1</b>	<b>53</b>	<b>42</b>
Blaenau Gwent - Blaenau Gwent	40	29	72.5	6	5
Caerffili - Caerphilly	89	43	48.3	33	13
Casnewydd - Newport	51	28	54.9	9	14
Sir Fynwy - Monmouthshire	16	14	87.5	1	1
Tor-faen - Torfaen	42	29	69.0	4	9
<b>Betsi Cadwaladr</b>	<b>337</b>	<b>0</b>	<b>0.0</b>	<b>155</b>	<b>182</b>
Conwy - Conwy	51	0	0.0	19	32
Gwynedd - Gwynedd	79	0	0.0	49	30
Sir Ddinbych - Denbighshire	42	0	0.0	17	25
Sir y Fflint - Flintshire	49	0	0.0	19	30
Sir Ynys Mon - Anglesey	46	0	0.0	18	28
Wrecsam - Wrexham	70	0	0.0	33	37
<b>Cardiff and Vale</b>	<b>158</b>	<b>136</b>	<b>86.1</b>	<b>20</b>	<b>0</b>
Bro Morgannwg - the Vale of Glamorgan	38	33	86.8	5	0
Caerdydd - Cardiff	120	103	85.8	15	0
<b>Cwm Taf</b>	<b>142</b>	<b>106</b>	<b>74.6</b>	<b>32</b>	<b>5</b>
Merthyr Tudfil - Merthyr Tydfil	42	33	78.6	10	0
Rhondda Cynon Taf - Rhondda Cynon Taff	100	73	73.0	22	5
<b>Hywel Dda</b>	<b>221</b>	<b>122</b>	<b>55.2</b>	<b>63</b>	<b>12</b>
Sir Benfro - Pembrokeshire	59	44	74.6	11	4
Sir Ceredigion - Ceredigion	38	1	2.6	14	
Sir Gaerfyrddin - Carmarthenshire	124	77	62.1	38	8
<b>Powys - Powys</b>	<b>43</b>	<b>15</b>	<b>34.9</b>	<b>26</b>	<b>1</b>
<b>WALES</b>	<b>1396</b>	<b>594</b>	<b>42.6</b>	<b>427</b>	<b>347</b>

*\*Note there are some minor data anomalies which mean that total settings does not add up to those with no training, settings where 1-4 personnel are trained and settings where 5 and more are trained*

774 settings (55.4%) received training during the reporting period; the number of personnel in attendance ranged from 1-54.

594 (42.6%) of settings delivering the tooth brushing element of the scheme received no training during 2018/19.

In 427 (37%) settings when training was scheduled it was delivered to less than 5 personnel.

## 11. Homepack provision

Table 17 Homepacks

AREA	Number of Home Packs distributed (A)	Number of children who received Home Packs (B)	Average number of times home packs are given to this setting	A/B Check
<b>ABMU</b>	<b>44266</b>	<b>19800</b>	<b>1.9</b>	<b>2.2</b>
Abertawe - Swansea	22969	9117	2.2	2.5
Castell-nedd Port Talbot - Neath Port Talbot	11264	4848	1.9	2.3
Pen-y-bont ar Ogwr - Bridgend	10033	5835	1.5	1.7
<b>Aneurin Bevan</b>	<b>36043</b>	<b>21592</b>	<b>1.9</b>	<b>1.7</b>
Blaenau Gwent - Blaenau Gwent	7880	3965	2.0	2.0
Caerffili - Caerphilly	12169	7282	1.9	1.7
Casnewydd - Newport	7154	4691	1.9	1.5
Sir Fynwy - Monmouthshire	2194	1097	2.0	2.0
Tor-faen - Torfaen	6646	4557	2.0	1.5
<b>Betsi Cadwaladr</b>	<b>36500</b>	<b>18250</b>	<b>2.0</b>	<b>2.0</b>
Conwy - Conwy	5672	2836	2.0	2.0
Gwynedd- Gwynedd	6524	3262	2.0	2.0
Sir Ddinbych - Denbighshire	4694	2347	2.0	2.0
Sir y Fflint - Flintshire	6612	3306	2.0	2.0
Sir Ynys Mon - Anglesey	4748	2374	2.0	2.0
Wrecsam - Wrexham	8250	4125	2.0	2.0
<b>Cardiff and Vale</b>	<b>27496</b>	<b>15140</b>	<b>1.7</b>	<b>1.8</b>
Bro Morgannwg - the Vale of Glamorgan	6419	3634	1.7	1.8
Caerdydd - Cardiff	21077	11506	1.7	1.8
<b>Cwm Taf</b>	<b>17848</b>	<b>9883</b>	<b>1.9</b>	<b>1.8</b>
Merthyr Tudfil - Merthyr Tydfil	5020	2809	1.8	1.8
Rhondda Cynon Taf - Rhondda Cynon Taff	12828	7074	1.9	1.8
<b>Hywel Dda</b>	<b>21696</b>	<b>10908</b>	<b>2.0</b>	<b>2.0</b>
Sir Benfro - Pembrokeshire	6375	3206	2.0	2.0
Sir Ceredigion - Ceredigion	3056	1561	1.9	2.0
Sir Gaerfyrddin - Carmarthenshire	12265	6141	2.0	2.0
<b>Powys</b>	<b>4860</b>	<b>2430</b>	<b>2.0</b>	<b>2.0</b>
<b>WALES</b>	<b>188709</b>	<b>98003</b>	<b>1.9</b>	<b>1.9</b>

Homepacks were reported to be distributed on average 1.9 times a year to children taking part in D2S. Table 18 below highlights the number of settings where home packs were distributed less than twice a year.



Table 18 Settings receiving Homepacks less than twice a year, i.e. 0 or 1

AREA	Setting had home packs 0 or 1 time a year
<b>ABMU</b>	<b>122</b>
Abertawe - Swansea	41
Castell-nedd Port Talbot - Neath Port Talbot	39
Pen-y-bont ar Ogwr - Bridgend	42
<b>Aneurin Bevan</b>	<b>14</b>
Blaenau Gwent - Blaenau Gwent	0
Caerffili - Caerphilly	6
Casnewydd - Newport	6
Sir Fynwy - Monmouthshire	0
Tor-faen - Torfaen	2
<b>Betsi Cadwaladr</b>	<b>0</b>
Conwy - Conwy	0
Gwynedd- Gwynedd	0
Sir Ddinbych - Denbighshire	0
Sir y Fflint - Flintshire	0
Sir Ynys Mon - Anglesey	0
Wrexham - Wrexham	0
<b>Cardiff and Vale</b>	<b>36</b>
Bro Morgannwg - the Vale of Glamorgan	10
Caerdydd - Cardiff	26
<b>Cwm Taf</b>	<b>16</b>
Merthyr Tudfil - Merthyr Tydfil	8
Rhondda Cynon Taf - Rhondda Cynon Taff	8
<b>Hywel Dda</b>	<b>7</b>
Sir Benfro - Pembrokeshire	2
Sir Ceredigion - Ceredigion	4
Sir Gaerfyrddin - Carmarthenshire	1
<b>Powys</b>	<b>0</b>
<b>WALES</b>	<b>195</b>

14.6% (195/1336) of settings taking part in either supervised toothbrushing or fluoride varnish (or both) received home packs less than twice a year.

## 12. Fluoride Varnish Activity

Table 19 Number of settings receiving 1 and 2 visits during reporting year and % coverage according to those taking part

Health Board	No. of settings taking part	1 visit	% 1 visit	2 visits	% 2 visit
ABMU	124	124	100.0	112	90.3
Aneurin Bevan	130	129	99.2	92	70.8
Betsi Cadwaladr	85	85	100.0	80	94.1
Cardiff and Vale	86	86	100.0	86	100.0
Cwm Taf	71	71	100.0	70	98.6
Hywel Dda	91	91	100.0	87	95.6
Powys - Powys	22	22	100.0	20	90.9
<b>Wales</b>	<b>609</b>	<b>608</b>	<b>99.8</b>	<b>547</b>	<b>89.8</b>

- 609 settings were taking part in the FV element of D2S, an increase of 35 settings when compared to 2017-18 (n=574).
- 99.8% and 89.8% of settings reported to be participating in the fluoride varnish programme have received one or two fluoride varnish visits respectively during the reporting period.
- Consent rates remain good at 78.7%, with 52,745 of the 66,992 children eligible having parental/guardian consent (Table 20).
- 8,528 children who have consent to take part, have not yet received fluoride varnish, i.e. the difference between the number consented 52,745 and those taking part 44,217 (Table 20).
- 44,217 children are taking part in the fluoride varnish element of Designed to Smile across the various nursery and school years (Table 20). 29,802 have had two applications and an additional 14,371 have had one application. The latter 2 numbers add up to 44,173, thus 44 are unaccounted for – this is likely to be associated with data anomalies, children off sick or children refusing to have the fluoride varnish themselves.
- 4,337 were excluded for medical reasons (Table 20).

Table 20 Fluoride varnish activity

AREA	Number of children eligible to take part in setting	Number of children with consent	Children aged 3-4 years (Nursery)	Children aged 4-5 years (Reception)	Children School Year 1	Children School Year 2	Tally taking part	Number of children receiving one six monthly application	Number of children receiving two six monthly applications	Number excluded due to medical reasons
<b>ABMU</b>	<b>15968</b>	<b>13197</b>	<b>2697</b>	<b>2567</b>	<b>2586</b>	<b>2611</b>	<b>10461</b>	<b>3163</b>	<b>7298</b>	<b>1288</b>
Abertawe - Swansea	7975	6688	1300	1232	1290	1474	5296	1639	3657	692
Castell-nedd Port Talbot - Neath Port Talbot	5050	4163	859	785	788	837	3269	1106	2163	365
Pen-y-bont ar Ogwr - Bridgend	2943	2346	538	550	508	300	1896	418	1478	231
<b>Aneurin Bevan</b>	<b>17569</b>	<b>14566</b>	<b>2772</b>	<b>3151</b>	<b>3333</b>	<b>3213</b>	<b>12469</b>	<b>5516</b>	<b>6953</b>	<b>1068</b>
Blaenau Gwent - Blaenau Gwent	3002	2316	476	498	545	517	2036	1273	763	121
Caerffili - Caerphilly	5763	4917	1000	1007	1051	1089	4147	789	3358	387
Casnewydd - Newport	4132	3443	628	772	825	745	2970	897	2073	261
Sir Fynwy - Monmouthshire	720	562	81	131	121	160	493	309	184	37
Tor-faen - Torfaen	3952	3328	587	743	791	702	2823	2248	575	262
<b>Betsi Cadwaladr</b>	<b>8295</b>	<b>6211</b>	<b>1286</b>	<b>1487</b>	<b>1304</b>	<b>1216</b>	<b>5293</b>	<b>877</b>	<b>4416</b>	<b>556</b>
Conwy - Conwy	1328	854	188	192	214	132	726	124	602	91
Gwynedd- Gwynedd	1104	939	150	216	221	231	818	137	681	93
Sir Ddinbych - Denbighshire	1091	796	202	240	124	98	664	40	624	78
Sir y Fflint - Flintshire	2261	1606	353	381	312	327	1373	121	1252	123
Sir Ynys Mon - Anglesey	1391	1069	190	255	256	246	947	315	632	74
Wrexham - Wrexham	1120	947	203	203	177	182	765	140	625	97
<b>Cardiff and Vale</b>	<b>10641</b>	<b>8293</b>	<b>2365</b>	<b>2195</b>	<b>2304</b>	<b>33</b>	<b>6897</b>	<b>2343</b>	<b>4555</b>	<b>579</b>
Bro Morgannwg - the Vale of Glamorgan	2024	1639	467	396	471	18	1352	482	870	101
Caerdydd - Cardiff	8617	6654	1898	1799	1833	15	5545	1861	3685	478
<b>Cwm Taf</b>	<b>5737</b>	<b>4586</b>	<b>1160</b>	<b>1285</b>	<b>1448</b>	<b>0</b>	<b>3893</b>	<b>1181</b>	<b>2680</b>	<b>386</b>
Merthyr Tudfil - Merthyr Tydfil	2119	1651	452	460	535	0	1447	399	1041	150
Rhondda Cynon Taf - Rhondda Cynon Taff	3618	2935	708	825	913	0	2446	782	1639	236
<b>Hywel Dda</b>	<b>7280</b>	<b>4901</b>	<b>759</b>	<b>1153</b>	<b>1193</b>	<b>1218</b>	<b>4323</b>	<b>872</b>	<b>3438</b>	<b>404</b>
Sir Benfro - Pembrokeshire	2352	1507	289	343	319	378	1329	338	989	106
Sir Ceredigion - Ceredigion	781	560	76	154	129	137	496	87	409	45
Sir Gaerfyrddin - Carmarthenshire	4147	2834	394	656	745	703	2498	447	2040	253
<b>Powys - Powys</b>	<b>1502</b>	<b>991</b>	<b>144</b>	<b>271</b>	<b>256</b>	<b>210</b>	<b>881</b>	<b>419</b>	<b>462</b>	<b>56</b>
<b>WALES</b>	<b>66992</b>	<b>52745</b>	<b>11183</b>	<b>12109</b>	<b>12424</b>	<b>8501</b>	<b>44217</b>	<b>14371</b>	<b>29802</b>	<b>4337</b>

## 13. Designed to Smile Workforce

Table 21 Whole time equivalent staff

AREA	WTE
<b>ABMU</b>	<b>13.6</b>
Bridgend	3.1
Neath Port Talbot	3.6
Swansea	7.0
<b>Aneurin Bevan</b>	<b>14.1</b>
Caerphilly	3.0
Newport	1.9
Pan Gwent	7.5
Torfaen	1.7
<b>Betsi Cadwaladr</b>	<b>20.6</b>
Anglesey	1.8
Conwy	1.0
Denbighshire	2.5
Flintshire	6.3
Gwynedd	4.5
Wrexham	4.4
<b>Cardiff and Vale</b>	<b>10.9</b>
<b>Cwm Taf</b>	<b>11.3</b>
<b>Hywel Dda</b>	<b>8.3</b>
Carmarthenshire	5.7
Ceredigion	1.2
Pembrokeshire	1.4
<b>Powys</b>	<b>3.7</b>
<b>WALES</b>	<b>82.5</b>

Approximately 83 whole time equivalent personnel are working on the Designed to Smile programme; health board and unitary authority breakdowns are presented in Table 21. Table 22 presents a breakdown of the job roles working across Wales.

Table 22 Whole time equivalents presented by employee group

AREA	Admin assistant / officer	D2S lead/ manager	Dental therapist/ hygienist	Dental/Oral health educator/ Promoter	Dental/Oral health educator/Promoter and fluoride varnish dental nurse	Dental/Oral health support worker	Driver	Senior dental officer/dental officer	Total
ABMU	1.0	1.7	0.9	7.5	0.0	2.5	0.0	0.0	13.6
Aneurin Bevan	1.8	0.4	0.4	0.0	6.8	4.0	0.5	0.2	14.1
Betsi Cadwaladr	0.2	2.9	0.0	6.6	2.9	7.9	0.0	0.1	20.6
Cardiff and Vale	0.5	1.1	0.4	3.5	0.9	4.5	0.0	0.1	11.0
Cwm Taf	0.5	1.8	0.4	3.3	1.0	4.1	0.0	0.1	11.2
Hywel Dda	0.4	1.0	0.0	3.2	1.4	1.3	1.0	0.0	8.3
Powys	0.0	1.0	0.2	1.0	0.0	1.5	0.0	0.0	3.7
<b>Wales</b>	<b>4.4</b>	<b>9.9</b>	<b>2.3</b>	<b>25.1</b>	<b>13.0</b>	<b>25.8</b>	<b>1.5</b>	<b>0.5</b>	<b>82.5</b>

## 14. Costing of the programme

Spending on the programme and spending in relation to money allocated are presented in Tables 23 and 24 respectively.

Table 23 Spend on D2S

	Staff spend £	Staff spend as a % of total spend	Non-staff spend £	Total £
Abertawe Bro Morgannwg	406,415	66.1	208,343	614,758
Aneurin Bevan	609,565	82.9	125,865	735,430
Betsi Cadwaladr	614,295	74.3	212,801	827,096
Cardiff & Vale	399,249	74.6	135,997	535,246
Cwm Taf	329,196	76.3	102,352	431,548
Hywel Dda	371,244	78.6	101,307	472,551
Powys	118,918	78.9	31,869	150,787
<b>WALES</b>	<b>2,848,882</b>	<b>75.6</b>	<b>918,534</b>	<b>3,767,416</b>

Table 24 Allocations and spend on D2S

	Allocation £	Spend	Difference
Abertawe Bro Morgannwg	619,000	614,758	4,242
Aneurin Bevan	732,000	735,430	-3,430
Betsi Cadwaladr	822,000	827,096	-5,096
Cardiff & Vale*	970,000	535,246	3,206
Cwm Taf		431,548	
Hywel Dda	427,000	472,551	-45,551
Powys	147,000	150,787	-3,787
<b>WALES</b>	<b>3,717,000</b>	<b>3,767,416</b>	<b>-50,416</b>

## Appendix – Additional Activity in Cwm Taf Health Board

### Tooth-brushing

Numbers of settings targeted – 46 schools

Number of settings taking part – 37 schools (80.4%)

Number of children targeted in the participating schools – 3,241

Number of children taking part with consent – 2,814 (86.8%)

Number of parents who attended the talks - 78

Number of home packs distributed – 6,266

### Fluoride Varnish

Numbers of settings targeted – 46 schools

Number of settings taking part – 43 schools (93.5%)

Number of children targeted in the participating schools – 3,966

Number of children taking part with consent – 3,313 (83.5%)

1st application – 2,527 (63.7%)

2nd application – 1,170 (29.5%)

Two home packs were issued during the year but only to the classes participating in the tooth-brushing; in some schools not every class participated. Also, the Health Board's Fluoride Varnish programme experienced a lot of staff absences during the year due to sickness and bereavement. Consequently, whilst 3,313 children consented to have FV applied (i.e. 83.5%), only 63.7% had 1 FV application & only 29.5% had a second application.

## Acknowledgements

Thanks go to:

The Community Dental Service workforce for delivering D2S and for collating the monitoring return data.

Emma Pengelly, from the Welsh Oral Health Information Unit for central collation and cleaning of the monitoring returns.

Mary Wilson, from Public Health Wales in drafting the narrative chapter of the report.