Welsh Oral Health Information Unit
Uned Gwybodaeth Iechyd Geneuol Cymru

2018

Designed to Smile - Monitoring

TECHNICAL REPORT 2018

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FOREWARD

This report details the Designed to Smile activity which took place between September 2017 and July 2018. This is the first 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*".

SUMMARY RELATED TO PERFORMANCE INDICATORS

INDICATOR	For nurseries and schools	2017/18
1	100% of settings in the most, 2nd and middle deprived quintiles are invited to participate in D2S	**76.8**
	In settings taking part and with applicable age range:	
2	>90% participating in toothbrushing from nursery –Year 1	
	aged under 4	**94.0**
	aged 4-5 (Reception)	**94.0**
	aged 5-6 (Year 1)	**85.1**
3	>70% continue toothbrushing into Year 2	**75.2**
4	>90% of settings receive 2 fluoride varnish application visits per year up to Year 2 (for children 3yrs+)	**89.7**
5	100% settings have appropriate toothbrushing QA visits/ follow-ups	**99.0**
6	100% settings receive staff training on the toothbrushing scheme yearly and more frequently when new teaching staff begin supervising	**69.8**
	For Health Visiting and other early years groups	
7	All Health Visitor and Childcare accredited courses in Wales have an oral health training component within curriculum, with an offer of D2S involvement.	**NA***
8	Oral Health training session offered at least once every two years to all practising Health Visitors/School Nurses, as well as when possible to community dietitians, social workers, paediatric nurses etc.	**NA***
	For dental practices	
9	All NHS dental practices that have registered with Deanery e-learning QI programme are offered an in-practice D2S presentation.	**NA***

**NA – data not available as yet – will develop as the refocus of Designed to Smile embeds*

TARGETING – toothbrushing

- 1583 settings, out of a total of 2543 primary schools and nurseries across Wales[1], were eligible for targeting as they were located in either the middle, second most or most deprived areas according to WIMD 2014.

Table 1 Number of appropriately targeted settings taking part as a percentage of the targeting denominator

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
Abertawe Bro Morgannwg	205	246	83.3
Aneurin Bevan	237	347	68.3
Betsi Cadwaladr	306	357	85.7
Cardiff and Vale	115	156	73.7
Cwm Taf	142	187	75.9
Hywel Dda	177	232	76.3
Powys	34	58	58.6
WALES	**1216**	**1583**	**76.8**

- A total of 1216 settings eligible for targeting according to deprivation are taking part in the tooth brushing element of Designed to Smile. However, approximately a quarter of settings that should be targeted are not yet taking part (Table 1).
- 48% of all Welsh primary schools and nurseries are covered by the scheme (Table 2).

Table 2 Number of appropriately 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 across Wales
Abertawe Bro Morgannwg	205	374	54.8
Aneurin Bevan	237	456	52.0
Betsi Cadwaladr	306	623	49.1
Cardiff and Vale	115	331	34.7
Cwm Taf	142	222	64.0
Hywel Dda	177	388	45.6
Powys	34	149	22.8
WALES	**1216**	**2543**	**47.8**

[1] *Denominator for settings sourced from WG central school lists and CCSIW registered childcare, Spring 2017*

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

HEALTH BOARD	Yes	Not yet targeted	Refused	Closed	Setting withdrawn	Suspended by D2S	Blank	Total
ABMU	205	9	26	2	3		1	246
Aneurin Bevan	237	49	45	12	4			347
Betsi Cadwaladr	306	17	20	7	7		0	357
Cardiff and Vale	115	23	13		5			156
Cwm Taf	142	1	3	1	3		37	187
Hywel Dda	177	32	13	6	3	1		232
Powys	34	19		1	4			58
WALES	**1216**	**150**	**120**	**29**	**29**	**1**	**38**	**1583**

- Currently, there are 367 settings on the targeting list which are not tooth brushing (i.e. 1583-1216).
- 120 (8.43%) of those offered toothbrushing to date have refused to take part (120/1583-150).
- 29 (2%, 29/1433) of settings on the targeted list have closed during the reporting period.
- There was no information for 37 settings in Cwm Taf, as these are being targeted by an independent local health board scheme (Table 3).

Table 4 Settings NOT on the targeting list

HEALTH BOARD	Taking part in tooth brushing
ABMU	64
Aneurin Bevan	14
Betsi Cadwaladr	63
Cardiff and Vale	52
Cwm Taf	18
Hywel Dda	33
Powys	9
WALES	**253**

253 settings are taking part in the supervised tooth brushing element of Designed to Smile 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.

TARGETING – Fluoride Varnish

- 505 (31.9%), almost one third, 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 (Table 5).

- Most of the fluoride varnish activity takes place in primary school settings –when the targeting data is mapped against eligible primary settings – coverage rises to 66% (Table 5a).

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

HEALTH BOARD	number of settings FV	Total number of settings that should be targeted	as a % of those in 3 most deprived areas
Abertawe Bro Morgannwg	108	246	43.9
Aneurin Bevan	123	347	35.4
Betsi Cadwaladr	61	357	17.1
Cardiff and Vale	72	156	46.2
Cwm Taf	67	187	35.8
Hywel Dda	50	232	21.6
Powys	24	58	41.4
WALES	**505**	**1583**	**31.9**

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	108	120	90.0
Aneurin Bevan	123	144	85.4
Betsi Cadwaladr	61	175	34.9
Cardiff and Vale	72	78	92.3
Cwm Taf	67	103	65.0
Hywel Dda	50	119	42.0
Powys	24	26	92.3
WALES	**505**	**765**	**66.0**

- 19.9% of all Welsh primary schools and nurseries are covered by the fluoride varnish element of the scheme (Table 6); this rises to 40.4% 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	108	374	28.9
Aneurin Bevan	123	456	27.0
Betsi Cadwaladr	61	623	9.8
Cardiff and Vale	72	331	21.8
Cwm Taf	67	222	30.2
Hywel Dda	49	388	12.9
Powys	24	149	16.1
WALES	**505**	**2543**	**19.9**

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

HEALTH BOARD	number of settings FV	Total number of Primary settings across Wales	as a % of those across Wales
Abertawe Bro Morgannwg	108	179	60.3
Aneurin Bevan	123	188	65.4
Betsi Cadwaladr	61	346	17.6
Cardiff and Vale	72	142	50.7
Cwm Taf	67	119	56.3
Hywel Dda	50	195	25.6
Powys	24	80	30.0
WALES	**505**	**1249**	**40.4**

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	Setting withdrawn	Blanks	Total
ABMU	108	102	2	10	23		1	246
Aneurin Bevan	123	199	1	3	21			347
Betsi Cadwaladr	61	166	7	123				357
Cardiff and Vale	72	69		11	4			156
Cwm Taf	67	83					37	187
Hywel Dda	59		5	157	15	2	3	232
Powys	24	5	1	24		4		58
WALES	**505**	**624**	**16**	**328**	**63**	**6**		**1583**

- Currently, there are 1,078 settings on the targeting list that are not participating in the fluoride varnish programme (i.e. 1583-505).
- 63 settings (who are eligible to be offered fluoride varnish) have refused to take part.

- 16 settings have closed during the reporting period.
- There was no information for 37 settings in Cwm Taf, as these are being targeted by an independent local health board scheme (Table 7).

Table 8 Settings NOT on the targeting list

HEALTH BOARD	Taking part in Fluoride Varnish
ABMU	21
Aneurin Bevan	7
Betsi Cadwaladr	8
Cardiff and Vale	22
Cwm Taf	5
Hywel Dda	1
Powys	5
WALES	**69**

- There were 69 settings participating in the fluoride varnish programme during 2017/18 who are not on the targeting lists (and therefore not in the three most deprived quintiles according to WIMD 2014).

ACTIVITY – toothbrushing

- 90,915 children have parental/guardian consent to take part in the Designed to Smile toothbrushing programme. 90,820 of these children (41,588 aged less than 4; 18392 aged 4-5, 16,722 aged 5-6 and 14,118 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
ANEURIN BEVAN	**20121**	**18365**	**7716**	**3888**	**3523**	**3230**	**1594**
Blaenau Gwent - Blaenau Gwent	3254	2904	1554	542	464	371	263
Caerffili - Caerphilly	6616	6141	2368	1376	1196	1148	611
Casnewydd - Newport	4785	4213	1639	924	807	762	271
Sir Fynwy - Monmouthshire	1007	838	381	152	161	150	82
Tor-faen - Torfaen	4459	4269	1774	894	895	799	367
ABMU	**21603**	**19321**	**9043**	**3383**	**3398**	**3376**	**1501**
Abertawe - Swansea	10114	8913	3913	1623	1664	1686	578
Castell-nedd Port Talbot - Neath Port Talbot	5664	5060	2493	753	887	849	247
Pen-y-bont ar Ogwr - Bridgend	5825	5348	2637	1007	847	841	676
BETSI CADWALADR	**18772**	**17581**	**8294**	**3822**	**3013**	**2452**	**2144**
Conwy - Conwy	2535	2458	1220	489	452	297	265
Gwynedd - Gwynedd	3288	3150	1397	692	665	396	392
Sir Ddinbych - Denbighshire	2373	2240	1350	456	218	216	239
Sir y Fflint - Flintshire	3549	3269	1370	818	536	545	393
Sir Ynys Mon - Isle of Anglesey	2509	2214	936	490	420	368	342
Wrecsam - Wrexham	4518	4250	2021	877	722	630	513
CWM TAF	**9796**	**9571**	**5203**	**1659**	**1575**	**1211**	**166**
Merthyr Tudful - Merthyr Tydfil	2649	2607	1635	478	367	205	42
Rhondaa Cynon Taf - Rhondda Cynon Taf	7147	6964	3568	1181	1208	1006	124
CARDIFF & VALE	**14938**	**14092**	**6475**	**3031**	**2699**	**1855**	**154**
Bro Morgannwg - the Vale of Glamorgan	3489	3298	1543	690	581	485	5
Caerdydd - Cardiff	11449	10794	4932	2341	2118	1370	149
HYWEL DDA	**10597**	**9595**	**3823**	**2125**	**2085**	**1553**	**488**
Sir Benfro - Pembrokeshire	3227	2878	1228	566	617	460	160
Sir Ceredigion - Ceredigion	1738	1627	663	357	371	238	66
Sir Gaerfyrddin - Carmarthenshire	5632	5090	1932	1202	1097	855	262
POWYS	**2499**	**2390**	**1034**	**484**	**429**	**441**	**1**
WALES	**98326**	**90915**	**41588**	**18392**	**16722**	**14118**	**6048**

- Overall, the consent rates remain high – Wales 92.5% (90,915/98326). The consent rates do vary by health board ranging from 89.4% in ABMU to 97.7% in Cwm Taf.
- Of the 90,820 children taking part:
    - 45.8% are aged less than 4
    - 20.3% are reception age (aged 4-5)
    - 18.4% come from school year 1 (aged 5-6)
    - 15.5% come from school year 2 (aged 6-7)

COVERAGE – OF THE TOOTH BRUSHING PROGRAMME WITHIN SETTINGS BY YEAR GROUP

Overall there are 1469 settings brushing as a part of Designed to Smile. 1395 (out of the 1469) settings have children aged less than 4 attending and 94.1% (1312) of these settings have children aged less than 4 brushing.

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

AREA	Number of settings taking part with children aged less than 4	Number of settings where children <4 are brushing	% coverage of under 4s
ABMU	**255**	**254**	**99.6**
Abertawe - Swansea	98	97	99.0
Castell-nedd Port Talbot - Neath Port Talbot	75	75	100.0
Pen-y-bont ar Ogwr - Bridgend	82	82	100.0
Aneurin Bevan	**250**	**227**	**90.8**
Blaenau Gwent - Blaenau Gwent	41	35	85.4
Caerffili - Caerphilly	91	86	94.5
Casnewydd - Newport	57	51	89.5
Sir Fynwy - Monmouthshire	18	16	88.9
Tor-faen - Torfaen	43	39	90.7
Betsi Cadwaladr	**368**	**341**	**92.7**
Conwy - Conwy	57	52	91.2
Gwynedd - Gwynedd	81	70	86.4
Sir Ddinbych - Denbighshire	46	44	95.7
Sir y Fflint - Flintshire	52	52	100.0
Sir Ynys Mon - Isle of Anglesey	58	50	86.2
Wrecsam - Wrexham	74	73	98.6
Cardiff and Vale	**160**	**136**	**85.0**
Bro Morgannwg - the Vale of Glamorgan	42	35	83.3
Caerdydd - Cardiff	118	101	85.6
Cwm Taf	**159**	**151**	**95.0**
Merthyr Tudful - Merthyr Tydfil	45	43	95.6
Rhondda Cynon Taf - Rhondda Cynon Taf	114	108	94.7
Hywel Dda	**173**	**173**	**100.0**
Sir Benfro - Pembrokeshire	57	54	94.7
Sir Ceredigion - Ceredigion	21	22	104.8
Sir Gaerfyrddin - Carmarthenshire	95	97	102.1
Powys	**30**	**30**	**100.0**
WALES	**1395**	**1312**	**94.1**

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

AREA	Nummber of settings with children aged 4-5 years (Reception)	Number of settings where children aged 4-5 are brushing	% coverage of aged 4-5
ABMU	**130**	**130**	**100.0**
Abertawe - Swansea	59	59	100.0
Castell-nedd Port Talbot - Neath Port Talbot	36	36	100.0
Pen-y-bont ar Ogwr - Bridgend	35	35	100.0
Aneurin Bevan	**127**	**117**	**92.1**
Blaenau Gwent - Blaenau Gwent	20	19	95.0
Caerffili - Caerphilly	52	46	88.5
Casnewydd - Newport	26	25	96.2
Sir Fynwy - Monmouthshire	6	6	100.0
Tor-faen - Torfaen	23	21	91.3
Betsi Cadwaladr	**190**	**177**	**93.2**
Conwy - Conwy	22	20	90.9
Gwynedd - Gwynedd	46	46	100.0
Sir Ddinbych - Denbighshire	20	15	75.0
Sir y Fflint - Flintshire	34	32	94.1
Sir Ynys Mon - Isle of Anglesey	35	33	94.3
Wrecsam - Wrexham	33	31	93.9
Cardiff and Vale	**89**	**81**	**91.0**
Bro Morgannwg - the Vale of Glamorgan	23	19	82.6
Caerdydd - Cardiff	66	62	93.9
Cwm Taf	**71**	**61**	**85.9**
Merthyr Tudful - Merthyr Tydfil	20	15	75.0
Rhondda Cynon Taf - Rhondda Cynon Taf	51	46	90.2
Hywel Dda	**106**	**103**	**97.2**
Sir Benfro - Pembrokeshire	26	26	100.0
Sir Ceredigion - Ceredigion	15	17	113.3
Sir Gaerfyrddin - Carmarthenshire	65	60	92.3
Powys	**25**	**25**	**100.0**
WALES	**738**	**694**	**94.0**

738 (out of the 1469) settings have children aged between 4 and 5 attending and 94% (694) of these settings have children aged between 4 and 5 brushing on a regular basis.

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

AREA	Nummber of settings with children aged 5-6 years (School Yr 1)	Number of settings where children aged 5-6are brushing	% coverage of aged 5-6
ABMU	**119**	**117**	**98.3**
Abertawe - Swansea	55	53	96.4
Castell-nedd Port Talbot - Neath Port Talbot	34	34	100.0
Pen-y-bont ar Ogwr - Bridgend	30	30	100.0
Aneurin Bevan	**127**	**104**	**81.9**
Blaenau Gwent - Blaenau Gwent	20	16	80.0
Caerffili - Caerphilly	52	40	76.9
Casnewydd - Newport	26	22	84.6
Sir Fynwy - Monmouthshire	6	6	100.0
Tor-faen - Torfaen	23	20	87.0
Betsi Cadwaladr	**188**	**137**	**72.9**
Conwy - Conwy	21	14	66.7
Gwynedd - Gwynedd	46	41	89.1
Sir Ddinbych - Denbighshire	20	10	50.0
Sir y Fflint - Flintshire	33	21	63.6
Sir Ynys Mon - Isle of Anglesey	35	27	77.1
Wrecsam - Wrexham	33	24	72.7
Cardiff and Vale	**86**	**72**	**83.7**
Bro Morgannwg - the Vale of Glamorgan	20	16	80.0
Caerdydd - Cardiff	66	56	84.8
Cwm Taf	**71**	**60**	**84.5**
Merthyr Tudful - Merthyr Tydfil	20	12	60.0
Rhondda Cynon Taf - Rhondda Cynon Taf	51	48	94.1
Hywel Dda	**105**	**100**	**95.2**
Sir Benfro - Pembrokeshire	26	26	100.0
Sir Ceredigion - Ceredigion	16	16	100.0
Sir Gaerfyrddin - Carmarthenshire	63	58	92.1
Powys	**21**	**20**	**95.2**
WALES	**717**	**610**	**85.1**

717 (out of the 1469) settings have children aged between 5 and 6 attending and 85.1% (610) of these settings have children aged between 5 and 6 brushing on a regular basis.

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

AREA	Nummber of settings with children aged 6-7 years (School Yr 2)	Number of settings where children aged 6-7 are brushing	% coverage of aged 6-7
ABMU	**118**	**115**	**97.5**
Abertawe - Swansea	55	54	98.2
Castell-nedd Port Talbot - Neath Port Talbot	33	32	97.0
Pen-y-bont ar Ogwr - Bridgend	30	29	96.7
Aneurin Bevan	**127**	**102**	**80.3**
Blaenau Gwent - Blaenau Gwent	20	13	65.0
Caerffili - Caerphilly	52	43	82.7
Casnewydd - Newport	26	23	88.5
Sir Fynwy - Monmouthshire	6	6	100.0
Tor-faen - Torfaen	23	17	73.9
Betsi Cadwaladr	**187**	**116**	**62.0**
Conwy - Conwy	20	10	50.0
Gwynedd - Gwynedd	46	31	67.4
Sir Ddinbych - Denbighshire	20	10	50.0
Sir y Fflint - Flintshire	34	21	61.8
Sir Ynys Mon - Isle of Anglesey	35	22	62.9
Wrecsam - Wrexham	32	22	68.8
Cardiff and Vale	**87**	**54**	**62.1**
Bro Morgannwg - the Vale of Glamorgan	21	14	66.7
Caerdydd - Cardiff	66	40	60.6
Cwm Taf	**72**	**45**	**62.5**
Merthyr Tudful - Merthyr Tydfil	21	6	28.6
Rhondda Cynon Taf - Rhondda Cynon Taf	51	39	76.5
Hywel Dda	**98**	**83**	**84.7**
Sir Benfro - Pembrokeshire	26	24	92.3
Sir Ceredigion - Ceredigion	16	13	81.3
Sir Gaerfyrddin - Carmarthenshire	56	46	82.1
Powys	**20**	**18**	**90.0**
WALES	**709**	**533**	**75.2**

709 (out of the 1469) settings have children aged between 6 and 7 attending and 75.2% (533) of these settings have children aged between 6 and 7 brushing on a regular basis.

QUALITY ASSURANCE

Table 14 Settings conforming to QA requirements in the year

	Total BRUSHING	Yes	% conforming to QA	No
ANEURIN BEVAN	**251**	**248**	**98.8**	**3**
Blaenau Gwent - Blaenau Gwent	41	41	100.0	
Caerffili - Caerphilly	91	90	98.9	1
Casnewydd - Newport	58	56	96.6	2
Sir Fynwy - Monmouthshire	18	18	100.0	
Tor-faen - Torfaen	43	43	100.0	
ABMU	**268**	**264**	**98.5**	**1**
Abertawe - Swansea	106	103	97.2	1
Castell-nedd Port Talbot - Neath Port Talbot	78	77	98.7	1
Pen-y-bont ar Ogwr - Bridgend	84	84	100.0	
BETSI CADWALDR	**369**	**369**	**100.0**	**0**
Conwy - Conwy	57	57	100.0	
Gwynedd - Gwynedd	82	82	100.0	
Sir Ddinbych - Denbighshire	46	46	100.0	
Sir y Fflint - Flintshire	52	52	100.0	
Sir Ynys Mon - Isle of Anglesey	58	58	100.0	
Wrecsam - Wrexham	74	74	100.0	
CWM TAF	**160**	**158**	**98.8**	**1**
Merthyr Tudful - Merthyr Tydfil	45	45	100.0	
Rhondaa Cynon Taf - Rhondda Cynon Taf	115	113	98.3	1
CARDIFF AND VALE	**168**	**163**	**97.0**	**3**
Bro Morgannwg - the Vale of Glamorgan	42	39	92.9	1
Caerdydd - Cardiff	126	124	98.4	2
HYWEL DDA	**210**	**208**	**99.0**	**2**
Sir Benfro - Pembrokeshire	59	59	100.0	
Sir Ceredigion - Ceredigion	32	30	93.8	2
Sir Gaerfyrddin - Carmarthenshire	119	119	100.0	
Powys - Powys	**43**	**43**	**100.0**	**0**
WALES	**1469**	**1454**	**99.0**	**10**

**Note there are missing values for 3 health boards (ABMU, 3; Cwm Taf, 1; Cardiff and Vale 2)*

99% (1454) 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 measure >0	Proportion of settings with remedial measures
ANEURIN BEVAN	**251**	**29**	**11.6**
Blaenau Gwent - Blaenau Gwent	41	11	26.8
Caerffili - Caerphilly	91	5	5.5
Casnewydd - Newport	58	3	5.2
Sir Fynwy - Monmouthshire	18	2	11.1
Tor-faen - Torfaen	43	8	18.6
ABMU	**268**	**14**	**5.2**
Abertawe - Swansea	106	11	10.4
Castell-nedd Port Talbot - Neath Port Talbot	78	2	2.6
Pen-y-bont ar Ogwr - Bridgend	84	1	1.2
BETSI CADWALDR	**369**	**0**	**0.0**
Conwy - Conwy	57	0	0.0
Gwynedd - Gwynedd	82	0	0.0
Sir Ddinbych - Denbighshire	46	0	0.0
Sir y Fflint - Flintshire	52	0	0.0
Sir Ynys Mon - Isle of Anglesey	58	0	0.0
Wrecsam - Wrexham	74	0	0.0
CWM TAF	**160**	**49**	**30.6**
Merthyr Tudful - Merthyr Tydfil	45	6	13.3
Rhondaa Cynon Taf - Rhondda Cynon Taf	115	43	37.4
CARDIFF AND VALE	**168**	**39**	**23.2**
Bro Morgannwg - the Vale of Glamorgan	42	3	7.1
Caerdydd - Cardiff	126	36	28.6
HYWEL DDA	**210**	**8**	**3.8**
Sir Benfro - Pembrokeshire	59	5	8.5
Sir Ceredigion - Ceredigion	32	2	6.3
Sir Gaerfyrddin - Carmarthenshire	119	1	0.8
POWYS	**43**	**8**	**18.6**
WALES	**1469**	**147**	**10.0**

- 10% (147) 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 30.6% (49/160) of settings in the Cwm Taf health board area (Table 15).

SETTING 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 trained
ANEURIN BEVAN	**251**	**1**	**0.4**	**113**	**137**
Blaenau Gwent - Blaenau Gwent	41	0	0.0	19	22
Caerffili - Caerphilly	91	0	0.0	34	57
Casnewydd - Newport	58	0	0.0	33	25
Sir Fynwy - Monmouthshire	18	1	5.6	11	6
Tor-faen - Torfaen	43	0	0.0	16	27
ABMU	**268**	**46**	**17.2**	**91**	**128**
Abertawe - Swansea	106	31	29.2	29	44
Castell-nedd Port Talbot - Neath Port Talbot	78	15	19.2	44	18
Pen-y-bont ar Ogwr - Bridgend	84		0.0	18	66
BETSI CADWALADR	**369**	**0**	**0.0**	**205**	**164**
Conwy - Conwy	57	0	0.0	38	19
Gwynedd - Gwynedd	82	0	0.0	56	26
Sir Ddinbych - Denbighshire	46	0	0.0	29	17
Sir y Fflint - Flintshire	52	0	0.0	12	40
Sir Ynys Mon - Isle of Anglesey	58	0	0.0	28	30
Wrecsam - Wrexham	74	0	0.0	42	32
CWM TAF	**160**	**105**	**65.6**	**50**	**5**
Merthyr Tudful - Merthyr Tydfil	45	30	66.7	13	2
Rhondaa Cynon Taf - Rhondda Cynon Taf	115	75	65.2	37	3
CARDIFF AND VALE	**168**	**89**	**53.0**	**31**	**9**
Bro Morgannwg - the Vale of Glamorgan	42			2	0
Caerdydd - Cardiff	126	89	70.6	29	9
HYWEL DDA	**210**	**119**	**56.7**	**57**	**34**
Sir Benfro - Pembrokeshire	59	33	55.9	14	11
Sir Ceredigion - Ceredigion	32	18	56.3	11	4
Sir Gaerfyrddin - Carmarthenshire	119	68	57.1	32	19
POWYS	**43**	**43**	**100.0**	**1**	0
WALES	**1469**	**403**	**27.4**	**548**	**477**

**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*

1025 settings (69.8%) received training during the reporting period; the number of personnel in attendance ranged from 1-56.

- 27.4% (403) of settings delivering the tooth brushing element of the scheme received no training during 2017/18 (Table 16).

- In 548 (37%) settings when training was scheduled it was delivered to less than 5 personnel (Table 16).

HOMEPACKS for tooth brushing and fluoride varnish

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 settings	A/B check
ABMU	**46989**	**46989**	**2.0**	**1.0**
Abertawe - Swansea	22542	22542	2.1	1.0
Castell-nedd Port Talbot - Neath Port Talbot	11601	11601	1.9	1.0
Pen-y-bont ar Ogwr - Bridgend	12846	12846	1.9	1.0
Aneurin Bevan	**40300**	**21481**	**1.3**	**1.9**
Blaenau Gwent - Blaenau Gwent	8016	4008	2.0	2.0
Caerffili - Caerphilly	12286	6833	1.1	1.8
Casnewydd - Newport	8742	4785	1.2	1.8
Sir Fynwy - Monmouthshire	1690	1007	0.9	1.7
Tor-faen - Torfaen	9566	4848	1.5	2.0
Betsi Cadwaladr	**36557**	**18796**	**1.9**	**1.9**
Conwy - Conwy	5021	2535	2.0	2.0
Gwynedd - Gwynedd	6238	3241	1.9	1.9
Sir Ddinbych - Denbighshire	4709	2373	2.0	2.0
Sir y Fflint - Flintshire	6979	3549	1.9	2.0
Sir Ynys Mon - Isle of Anglesey	4593	2565	1.8	1.8
Wrecsam - Wrexham	9017	4533	2.0	2.0
Cardiff and Vale	**21136**	**10871**	**1.7**	**1.9**
Bro Morgannwg - the Vale of Glamorgan	180	180	1.5	1.0
Caerdydd - Cardiff	20956	10691	1.7	2.0
Cwm Taf	**17529**	**9076**	**1.7**	**1.9**
Merthyr Tudful - Merthyr Tydfil	4414	2476	1.3	1.8
Rhondda Cynon Taf - Rhondda Cynon Taf	13115	6600	1.9	2.0
Hywel Dda	**18658**	**10475**	**1.7**	**1.8**
Sir Benfro - Pembrokeshire	6036	3245	1.8	1.9
Sir Ceredigion - Ceredigion	2885	1652	1.7	1.7
Sir Gaerfyrddin - Carmarthenshire	9737	5578	1.7	1.7
Powys	**5354**	**2677**	**1.3**	**2.0**
WALES	**186523**	**120365**	**1.7**	**1.5**

Homepacks were reported to be distributed on average 1.7 times a year to children taking part in D2S. A check of this data characteristic, dividing the number of home packs distributed by the number of children receiving them suggested that this average was 1.5.

No settings have more than 4 home packs distributed in one year. Table 18 below highlights the number of settings where home packs were distributed less than twice a year – i.e. “Blank”, 0 or 1.

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

AREA	Settings had home packs 0 or 1 time a year
ABMU	**136**
Abertawe - Swansea	46
Castell-nedd Port Talbot - Neath Port Talbot	42
Pen-y-bont ar Ogwr - Bridgend	48
Aneurin Bevan	**47**
Blaenau Gwent - Blaenau Gwent	1
Caerffili - Caerphilly	21
Casnewydd - Newport	15
Sir Fynwy - Monmouthshire	8
Tor-faen - Torfaen	2
Betsi Cadwaladr	**33**
Conwy - Conwy	2
Gwynedd - Gwynedd	8
Sir Ddinbych - Denbighshire	2
Sir y Fflint - Flintshire	5
Sir Ynys Mon - Isle of Anglesey	13
Wrecsam - Wrexham	3
Cardiff and Vale	**20**
Bro Morgannwg - the Vale of Glamorgan	0
Caerdydd - Cardiff	20
Cwm Taf	**26**
Merthyr Tudful - Merthyr Tydfil	20
Rhondda Cynon Taf - Rhondda Cynon Taf	6
Hywel Dda	**50**
Sir Benfro - Pembrokeshire	9
Sir Ceredigion - Ceredigion	10
Sir Gaerfyrddin - Carmarthenshire	31
Powys	**4**
Powys - Powys	4
Grand Total	**316**

21% (316/1512) of settings taking part in either supervised toothbrushing or fluoride varnish (or both) received home packs less than twice a year (Table 18).

ACTIVITY – Fluoride Varnish

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	129	127	98.4	101	78.3
Aneurin Bevan	130	130	100.0	123	94.6
Betsi Cadwaladr	69	69	100.0	69	100.0
Cardiff and Vale	94	95	101.1	93	98.9
Cwm Taf	72	72	100.0	71	98.6
Hywel Dda	51	51	100.0	50	98.0
Powys	29	27	93.1	8	27.6
WALES	**574**	**571**	**99.5**	**515**	**89.7**

- 99.5% and 89.7% of settings reported to be participating in the fluoride varnish programme have received one or two fluoride varnish visits respectively during the reporting period (Table 19).
- Consent rates are good at 78.8%, with 51,643 of the 65,541 children eligible having parental/guardian consent (Table 20).
- 5,661 children who have consent to take part, have not yet received fluoride varnish, i.e. the difference between the number consented 51,643 and those taking part 45,982 (Table 20).
- 45,982 children are taking part in the fluoride varnish element of Designed to Smile across the various nursery and school years (Table 20). 29,895 have had two applications and an additional 15,026 have had one application. The latter 2 numbers add up to 44,921, thus 1,061 are unaccounted for – this is likely to be associated with data anomalies, children off sick or children refusing to have the fluoride varnish themselves.
- 3,859 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	Number of adverse events reported on DATIX
ABMU	**16159**	**13472**	**2568**	**2507**	**2811**	**2930**	**10816**	**4809**	**6549**	**1161**	**0**
Abertawe - Swansea	7993	6781	1280	1229	1408	1418	5335	2141	3570	601	0
Castell-nedd Port Talbot - Neath Port Talbot	5132	4227	842	783	848	914	3387	1451	1990	338	0
Pen-y-bont ar Ogwr - Bridgend	3034	2464	446	495	555	598	2094	1217	989	222	0
Aneurin Bevan	**17241**	**14372**	**2823**	**3393**	**3318**	**2966**	**12500**	**3046**	**9480**	**1060**	**2**
Blaenau Gwent - Blaenau Gwent	3162	2433	551	567	540	501	2159	635	1524	156	0
Caerffili - Caerphilly	5812	4796	960	1089	1156	1007	4212	923	3295	374	0
Casnewydd - Newport	3599	3114	492	774	698	621	2585	646	1940	258	0
Newport - Newport	233	189	44	42	42	41	169	36	133	10	0
Sir Fynwy - Monmouthshire	735	552	69	124	139	130	462	158	304	40	0
Tor-faen - Torfaen	3700	3288	707	797	743	666	2913	648	2284	222	2
Betsi Cadwaladr	**7149**	**5012**	**1041**	**1315**	**1089**	**898**	**4343**	**665**	**3678**	**462**	**4**
Conwy - Conwy	1054	621	130	162	150	117	559	113	446	54	1
Gwynedd - Gwynedd	1033	743	129	192	185	106	612	66	546	60	1
Sir Ddinbych - Denbighshire	1092	789	159	230	164	136	689	116	573	79	
Sir y Fflint - Flintshire	2028	1447	319	358	279	287	1243	225	1018	143	1
Sir Ynys Mon - Isle of Anglesey	846	677	130	175	167	99	571	16	555	70	1
Wrecsam - Wrexham	1096	735	174	198	144	153	669	129	540	56	
Cardiff and Vale	**11389**	**8731**	**2720**	**2914**	**3081**	**9**	**8724**	**2313**	**5264**	**523**	**0**
Bro Morgannwg - the Vale of Glamorgan	2275	1761	523	622	614	0	1759	638	1010	106	0
Caerdydd - Cardiff	9114	6970	2197	2292	2467	9	6965	1675	4254	417	
Cwm Taf	**5952**	**4810**	**1392**	**1630**	**1754**	**39**	**4815**	**1530**	**3052**	**374**	
Merthyr Tudful - Merthyr Tydfil	2124	1733	499	605	631	0	1735	709	1101	131	
Rhondda Cynon Taf - Rhondda Cynon Taf	3828	3077	893	1025	1123	39	3080	821	1951	243	
Hywel Dda	**5544**	**3993**	**833**	**945**	**973**	**1005**	**3756**	**1816**	**1681**	**214**	**0**
Sir Benfro - Pembrokeshire	1892	1300	241	316	334	310	1201	610	490	81	0
Sir Ceredigion - Ceredigion	605	432	107	97	98	104	406	188	180	19	0
Sir Gaerfyrddin - Carmarthenshire	3047	2261	485	532	541	591	2149	1018	1011	114	0
Powys	**2107**	**1253**	**176**	**326**	**258**	**268**	**1028**	**847**	**191**	**65**	**6**
WALES	**65541**	**51643**	**11553**	**13030**	**13284**	**8115**	**45982**	**15026**	**29895**	**3859**	**12**

Table 21 Activities with General Dental Services

AREA	Number of practices	Number of attendees at in practice training session	Average number of attendees at practice sessions	Taking part in QI Deanery project
Abertawe Bro Morgannwg	4	38	9.5	4
Aneurin Bevan	14	31	2.2	9
Betsi Cadwaladr	7	51	7.3	7
Cwm Taf	5	38	7.6	
Hywel Dda	1	13	13.0	1
Powys	3		0.0	2
WALES	**34**	**171**	**5.0**	**23**

- Engagement with general dental services forms part of the recent refocus of Designed to Smile. Activities with general dental services and reported as a part of the monitoring of D2S are presented in Table 21.

- This has also been reported in the findings of the Designed to Smile in Practice (D2SiP) evaluation. D2SiP was launched in December 2017, with 67 Foundation Dental training practices s completing the pilot. Of these 28% (19/67) received an in-practice training session (according to data collected in July 2018)[2].

	Dental Practices participating in Wales Deanery QI project	Practices that received training	Practices that got in touch with D2S but did not take up the offer of training	Practices that did not get in touch with D2S
Abertawe Bro Morgannwg	13	5	5	3
Aneurin Bevan	9	3	6	0
Betsi Cadwaladr	8	7	1	0
Cardiff and Vale	15	0	8	7
Cwm Taf	10	3	4	3
Hywel Dda	8	1	3	4
Powys	4	0	2	2
Total	**67**	**19**	**29**	**19**

The discrepancies between 2 data report will be addressed in clearer monitoring requirements going forward.

[2] From *Designed to Smile in Practice – an e-learning resource for dental teams in Wales*
An evaluation of the acceptability and effectiveness of an oral health improvement e-learning resource, September 2018

Table 22 Activities with Wider Partners

Health Board	Health visitors and school nurses	Other health care professionals	Child care personnel	Social workers	Any other professional	Formal structured teaching sessions	Home packs provided to HVs	Trainer cups provided to HVs
Aneurin Bevan	50	258	0	0	30	13	3429	0
Abertawe Bro Morgannwg	3	3	24	2	44	76	2800	2700
Betsi Cadwaladr	4	5	9	0	0	18	2960	2960
Cardiff and Vale	4	15	4	0	4	27	1539	341
Cwm Taf	4	3	10	0	4	21	341	289
Hywel Dda	4	14	6	0	5	29	1875	900
Powys	0	48	0	0	0	1	600	500
WALES	**69**	**346**	**53**	**2**	**87**	**185**	**13544**	**7690**

- Engagement with wider partners, notably health visitors, child care personnel and those working in the community with children (e.g. community dietetics) continues to be an important aspect of Designed to Smile. Activity for the 2017/18 period is presented in Table 22.

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