



# **Public Health Wales Vaccine Preventable Disease Programme**

## **Uptake of Childhood immunisation – LHB practice level reports**

### **Abertawe Bro Morgannwg University LHB**

**July 2009 – June 2010**

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## 1. Purpose and Background

This report is intended to assist LHBs and practices in improving uptake of immunisation against childhood disease. Immunisation saves lives. Millions of deaths worldwide are prevented annually through immunisation. The target uptake for all scheduled childhood immunisations at Health Board in Wales is 95%. This is based on the uptake needed to achieve 'herd-immunity', prevent spread in the population and effectively control vaccine preventable infectious diseases.

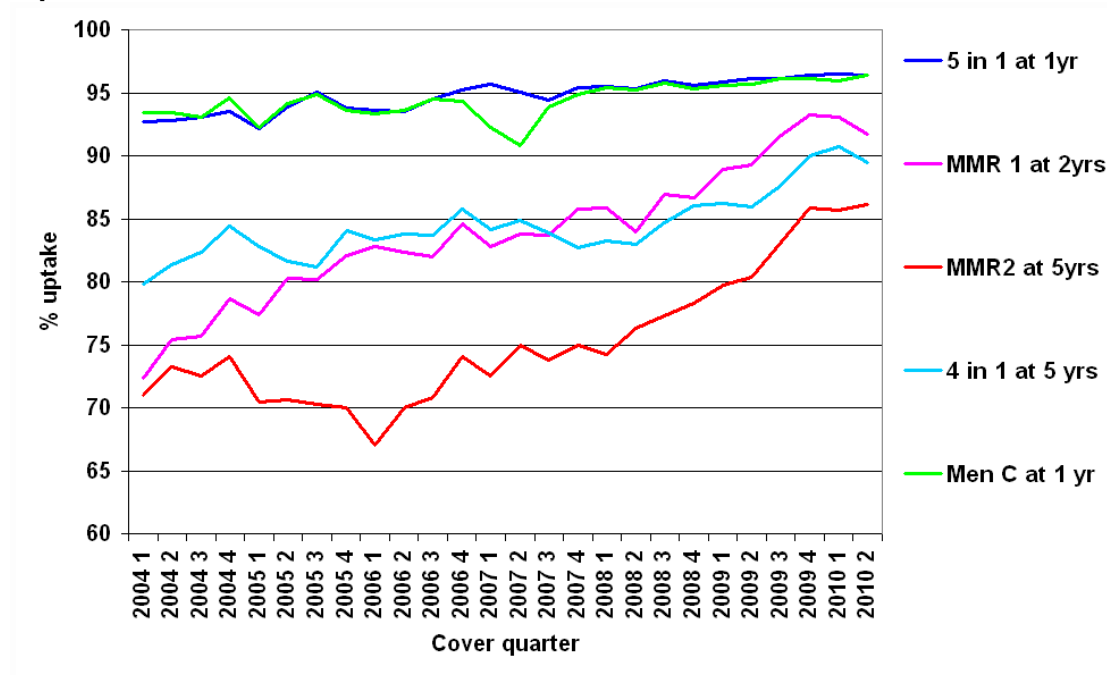
The data contained in this report is taken from the National Community Child Health Database (NCCHD). The quality of the information in the NCCHD, and therefore in this report, is dependent on the completeness of local Trust Child Health records and return of forms from practices. LHB children for whom practice details are not available are included in the report as 'unknown'.

This report gives an overview of the spreads of practice level uptake rates for routine childhood immunisations with Welsh Local Health Boards, in children reaching their first, second, fifth, 15<sup>th</sup> and 16<sup>th</sup> birthdays during the 01/07/2009 – 30/06/2010 period. The 95% uptake target is included on the charts in this report only as a guide.

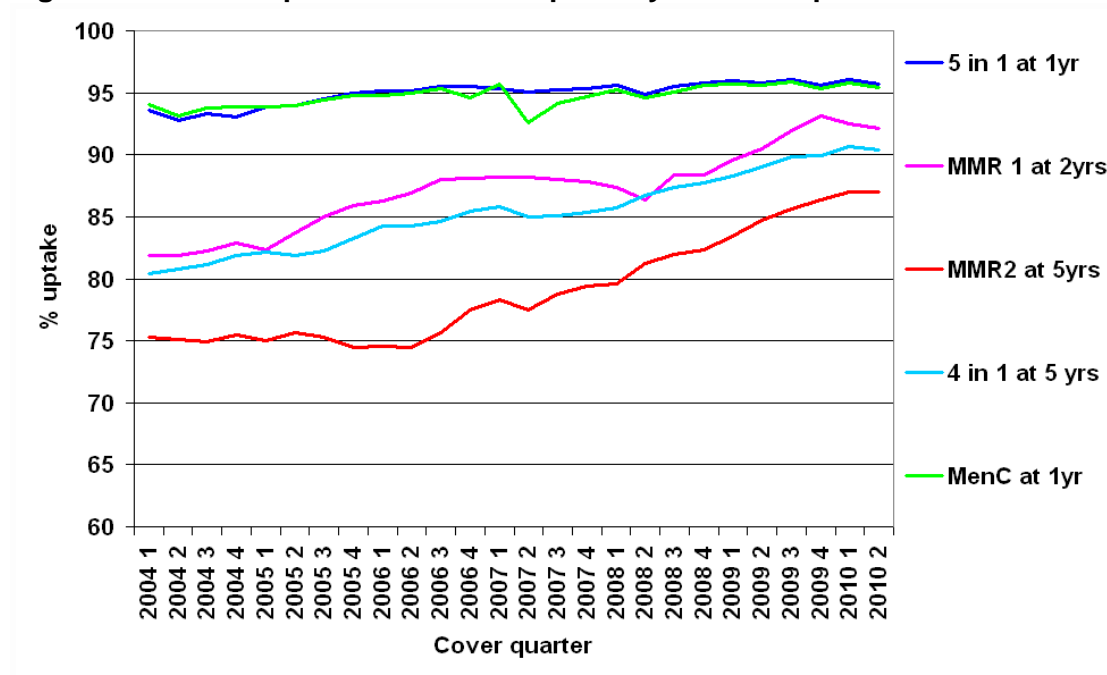
Data presented in this report are based on children in the appropriate birth cohorts and who are recorded on the Child Health Database as being registered with LHB practices, by Local Authority (LA) area. As a result data contained here will not be an exact match to the data contained in the quarterly and annual COVER reports, which is based solely on residence within LA boundaries, not on practice registration.

## 2. LHB trends and uptake data

**Figure 1. Uptake trends for LHB resident children from quarterly COVER reports\*\***



**Figure 2. National uptake trends from quarterly COVER reports \*\***



\*\* Source – NPHS quarterly COVER reports:

Intranet link: <http://howis.wales.nhs.uk/sites3/page.cfm?orgid=474&pid=21302>

Internet link: <http://www.wales.nhs.uk/sites3/page.cfm?orgid=457&pid=27778>

2.1 Practice level data – Bridgend LA\*

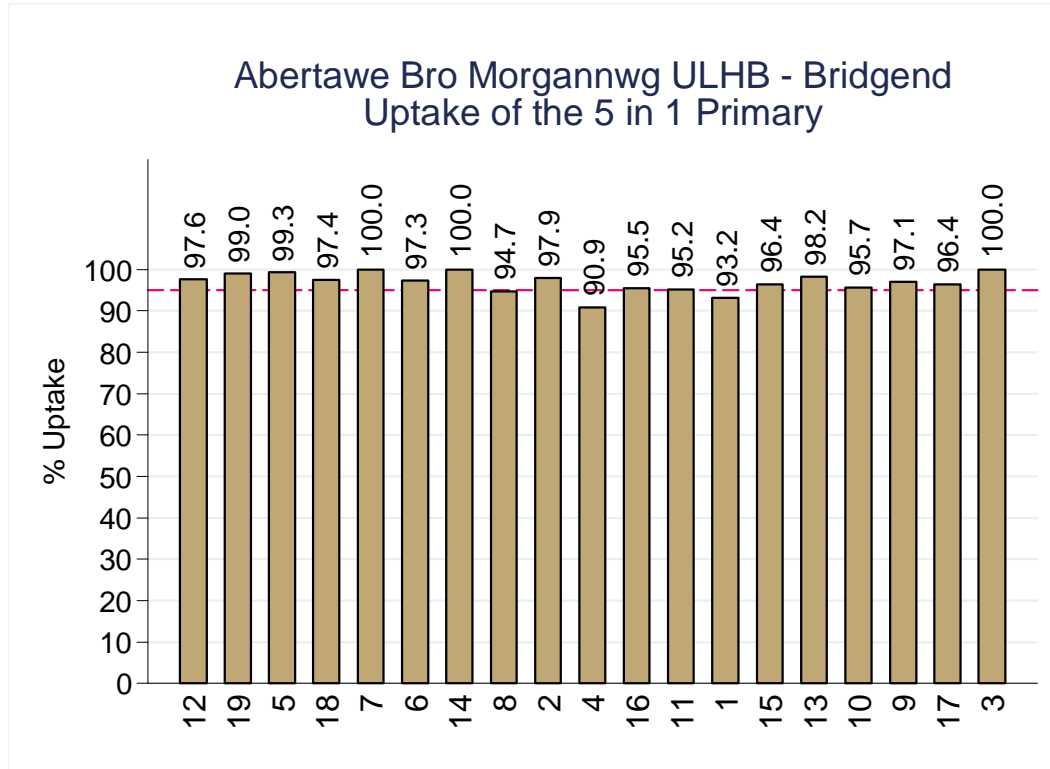
Random Code	Children reaching 1 year of age				Children reaching 2 years of age			Children reaching 5 years of age						Children reaching 15 years of age						Children reaching 16 years of age					
	Resident children (n)	5 in 1 (n) (%)		MenC (n) (%)		Resident children (n)	MMR1 (n) (%)		Resident children (n)	4 in 1 (pre-school booster) (n) (%)		MMR1 (n) (%)		MMR2 (n) (%)		Resident children (n)	MMR1 (n) (%)		MMR2 (n) (%)		3 in 1 (booster) (n) (%)		Resident children (n)	3 in 1 (booster) (n) (%)	
		(n)	(n)	(%)	(n)		(%)	(n)		(n)	(%)	(n)	(n)	(%)	(n)		(%)	(n)	(n)	(%)	(n)	(n)		(%)	(n)
12	206	201	97.6	201	97.6	214	203	94.9	198	178	89.9	184	92.9	170	85.9	164	141	86.0	128	78.0	73	44.5	205	153	74.6
19	192	190	99.0	187	97.4	210	201	95.7	171	156	91.2	160	93.6	147	86.0	156	143	91.7	134	85.9	50	32.1	185	154	83.2
5	141	140	99.3	140	99.3	131	124	94.7	122	103	84.4	116	95.1	99	81.1	124	103	83.1	94	75.8	39	31.5	121	83	68.6
18	116	113	97.4	113	97.4	129	120	93.0	105	86	81.9	95	90.5	86	81.9	113	104	92.0	92	81.4	39	34.5	97	75	77.3
7	112	112	100.0	112	100.0	98	93	94.9	120	110	91.7	111	92.5	100	83.3	131	124	94.7	119	90.8	54	41.2	157	130	82.8
6	110	107	97.3	107	97.3	88	82	93.2	89	77	86.5	85	95.5	78	87.6	90	83	92.2	81	90.0	19	21.1	81	64	79.0
14	99	99	100.0	99	100.0	81	76	93.8	79	78	98.7	75	94.9	75	94.9	71	57	80.3	52	73.2	21	29.6	63	55	87.3
8	95	90	94.7	90	94.7	117	104	88.9	116	108	93.1	108	93.1	100	86.2	91	83	91.2	75	82.4	31	34.1	118	99	83.9
2	94	92	97.9	92	97.9	111	104	93.7	101	92	91.1	97	96.0	89	88.1	111	98	88.3	95	85.6	39	35.1	88	71	80.7
4	88	80	90.9	80	90.9	83	73	88.0	104	88	84.6	97	93.3	85	81.7	79	73	92.4	55	69.6	34	43.0	86	69	80.2
16	67	64	95.5	64	95.5	61	59	96.7	58	43	74.1	46	79.3	42	72.4	64	60	93.8	49	76.6	18	28.1	73	51	69.9
11	62	59	95.2	59	95.2	64	56	87.5	55	49	89.1	52	94.5	48	87.3	63	61	96.8	56	88.9	16	25.4	76	61	80.3
1	59	55	93.2	55	93.2	56	55	98.2	45	41	91.1	42	93.3	40	88.9	37	33	89.2	30	81.1	13	35.1	53	42	79.2
15	56	54	96.4	54	96.4	54	44	81.5	40	34	85	35	87.5	32	80	44	43	97.7	38	86.4	20	45.5	48	42	87.5
13	56	55	98.2	55	98.2	69	66	95.7	68	62	91.2	64	94.1	58	85.3	74	67	90.5	62	83.8	31	41.9	72	59	81.9
10	46	44	95.7	44	95.7	45	41	91.1	44	37	84.1	42	95.5	36	81.8	55	52	94.5	50	90.9	35	63.6	56	48	85.7
9	34	33	97.1	33	97.1	32	28	87.5	27	25	92.6	25	92.6	25	92.6	37	33	89.2	32	86.5	19	51.4	31	23	74.2
17	28	27	96.4	27	96.4	27	25	92.6	21	19	90.5	20	95.2	17	81	22	21	95.5	19	86.4	11	50	24	19	79.2
Unknown	26	19	73.1	18	69.2	18	11	61.1	37	25	67.6	29	78.4	23	62.2	86	53	61.6	45	52.3	12	14	80	19	23.8
3	14	14	100	14	100	13	13	100	15	15	100	15	100	14	93.3	19	18	94.7	15	78.9	8	42.1	23	17	73.9

\*Data is presented as immunisations given rather than details for specific antigens:

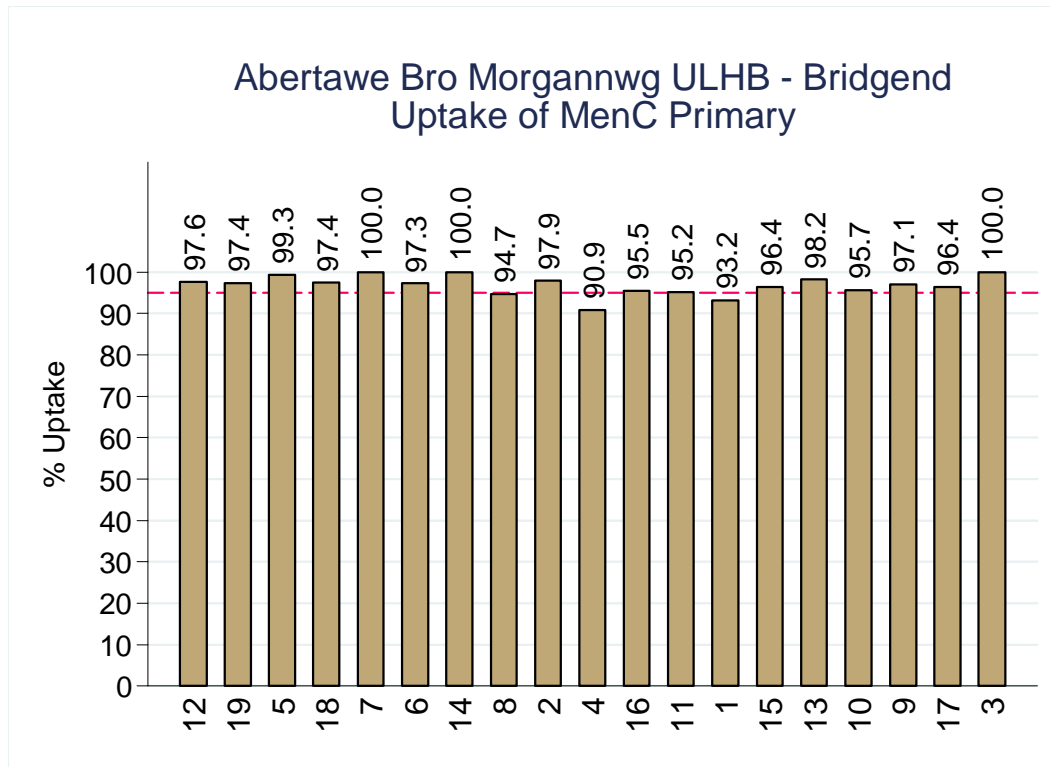
- 5 in 1 vaccine           Diphtheria, Tetanus, Pertussis, Polio, *Haemophilus influenzae* type b (Hib) (using pertussis as proxy)
- MenC                    Meningococcal group C
- MMR1                    Measles, Mumps, Rubella (1<sup>st</sup> dose)
- MMR2                    Measles, Mumps, Rubella (2<sup>nd</sup> dose)
- 4 in 1                    Diphtheria, Tetanus, Pertussis, Polio (using pertussis as proxy) – Pre-school booster
- 3 in 1 (booster)        Diphtheria, Tetanus, Polio (using diphtheria as proxy) – Teenage booster

Below 90%  
90% up to 95%  
95% and higher

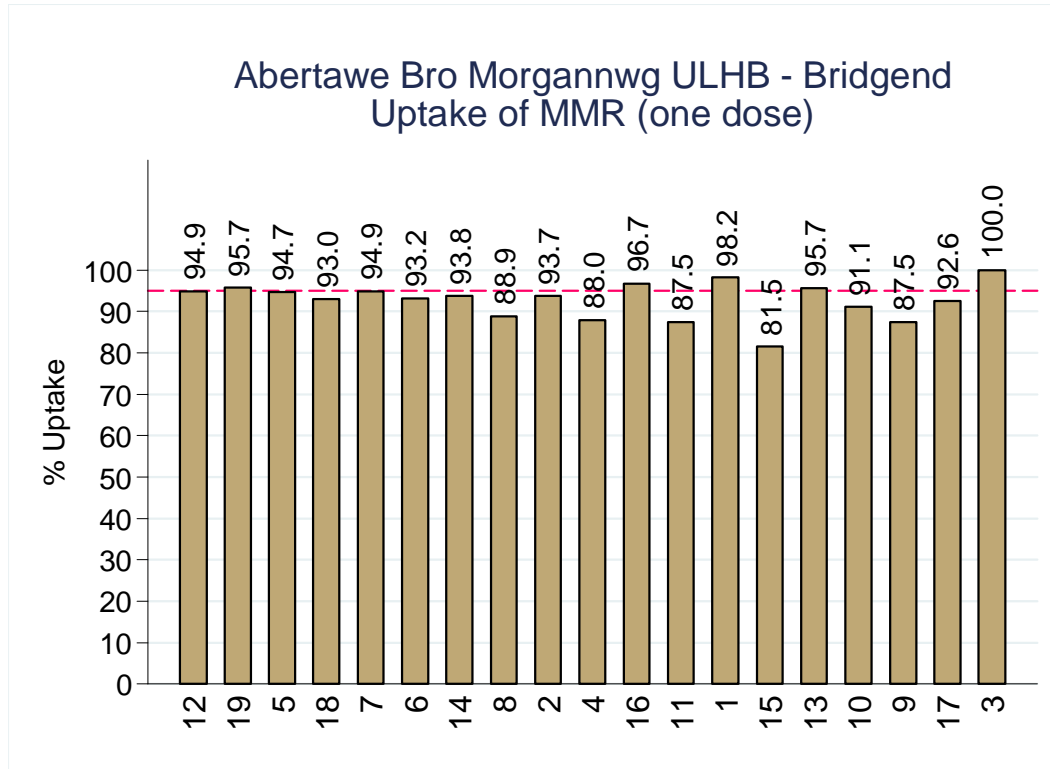
**Figure 2.1.1** Uptake of 5 in 1 vaccine in children reaching their first birthday during 01/07/2009 – 30/06/2010.



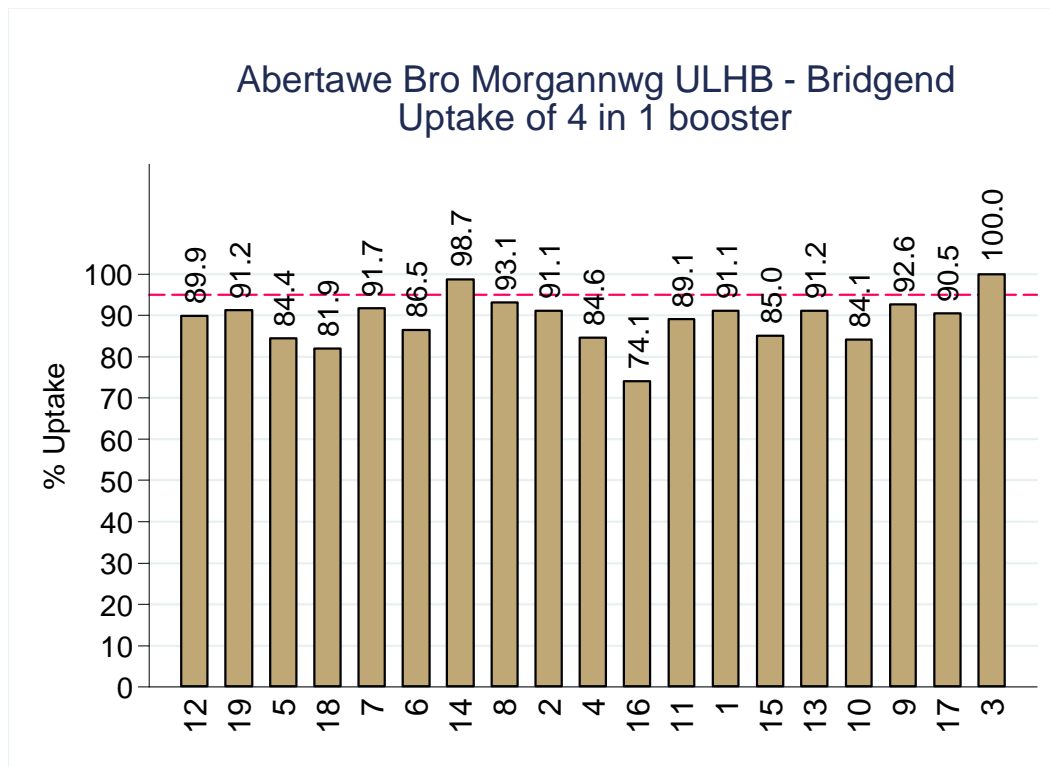
**Figure 2.1.2** Uptake of MenC vaccine in children reaching their first birthday during 01/07/2009 – 30/06/2010.



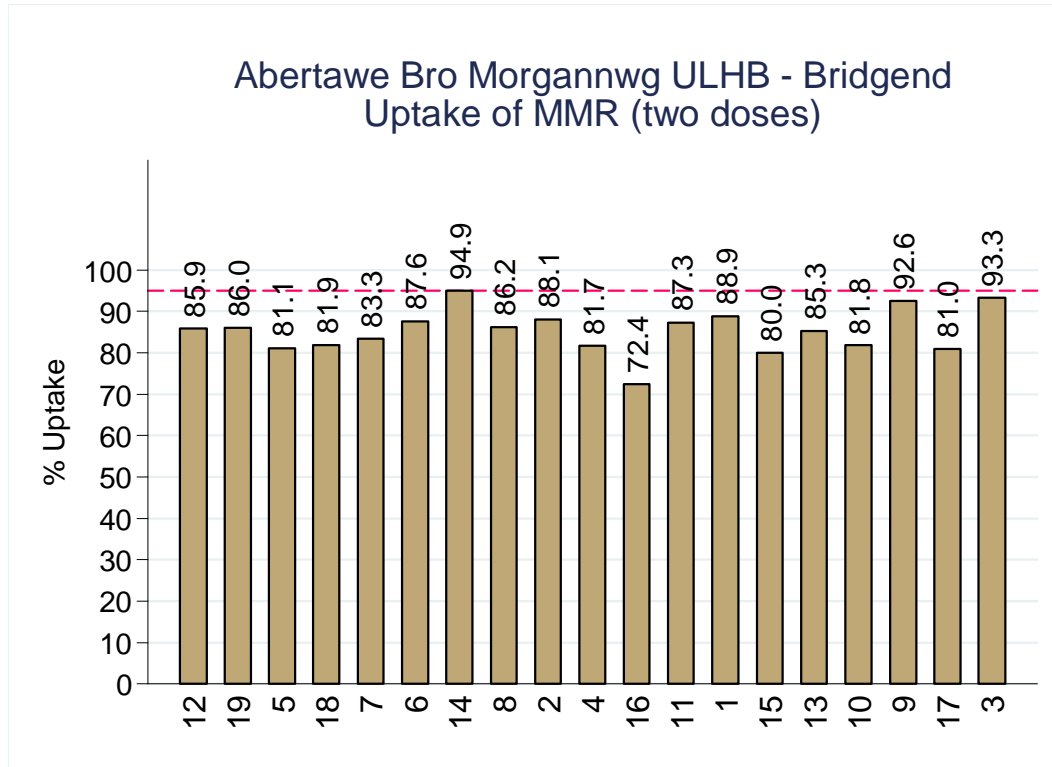
**Figure 2.1.3** Uptake of MMR vaccine (one dose) in children reaching their second birthday during 01/07/2009 – 30/06/2010.



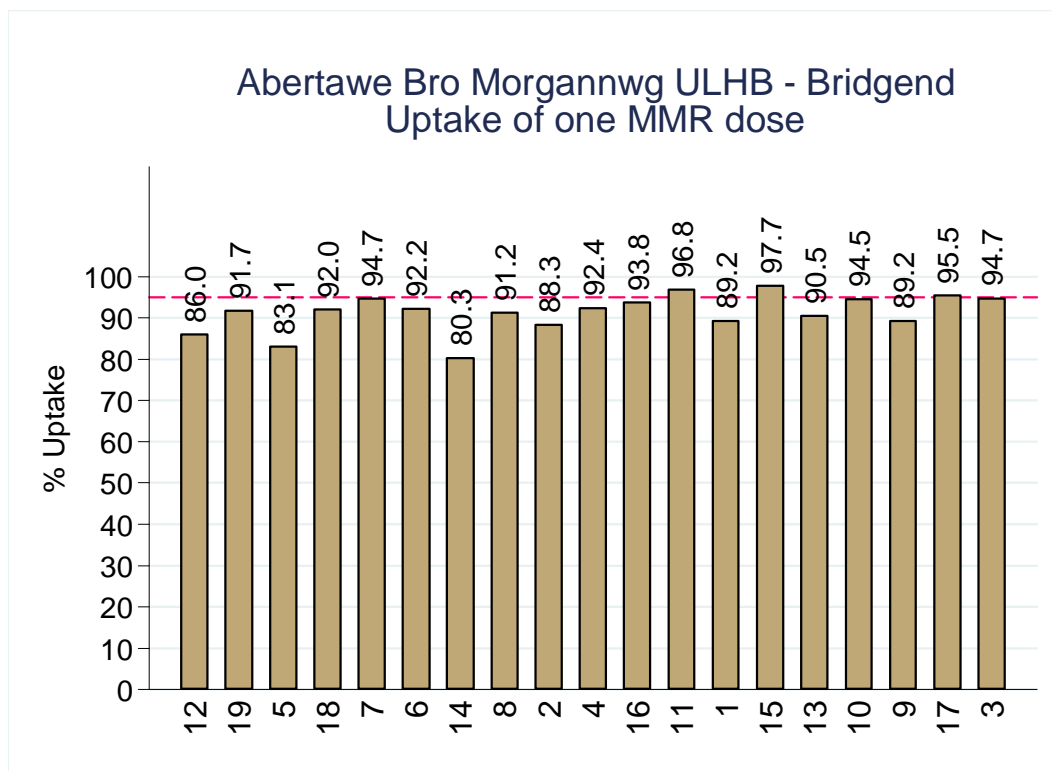
**Figure 2.1.4** Uptake of 4 in 1 vaccine in children reaching their fifth birthday during 01/07/2009 – 30/06/2010.



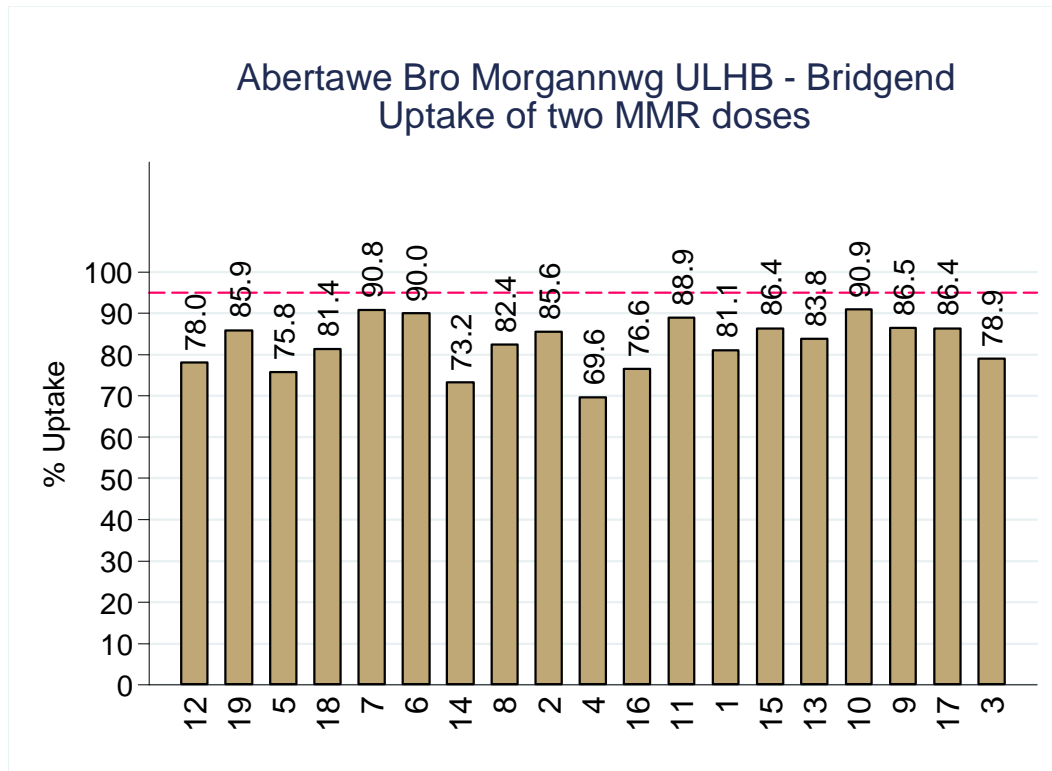
**Figure 2.1.5** Uptake of MMR vaccine (two doses) in children reaching their fifth birthday during 01/07/2009 – 30/06/2010.



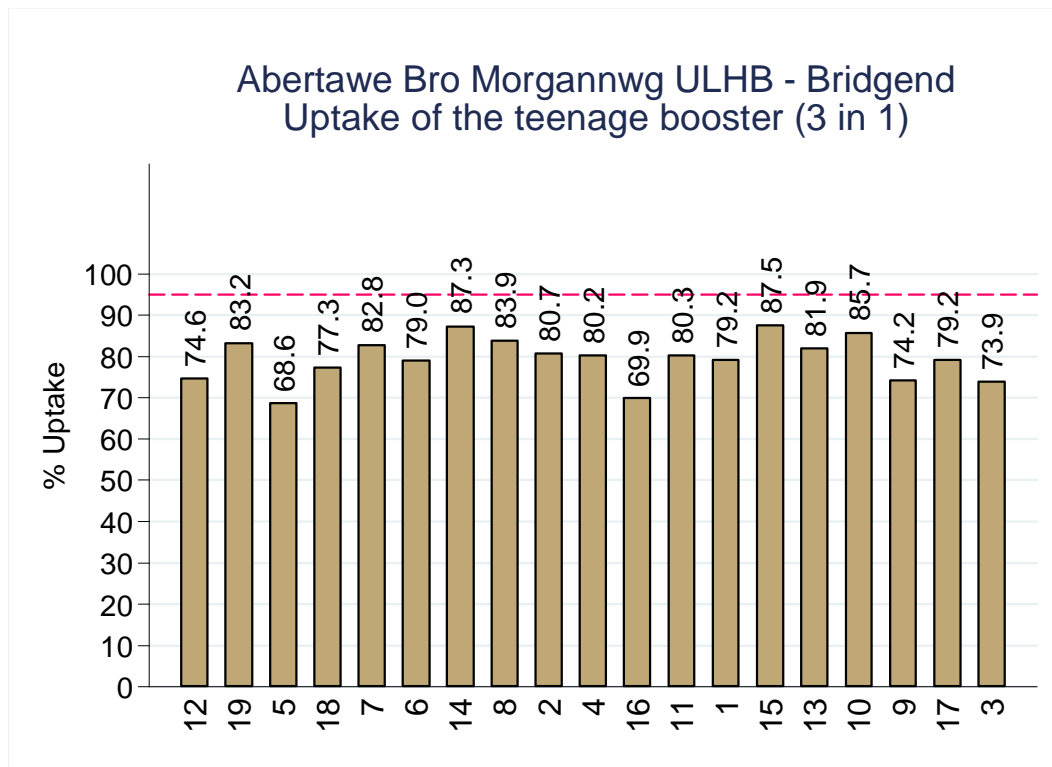
**Figure 2.1.6** Uptake of MMR vaccine (one dose) in children reaching their 15th birthday during 01/07/2009 – 30/06/2010.



**Figure 2.1.7** Uptake of MMR vaccine (two doses) in children reaching their 15th birthday during 01/07/2009 – 30/06/2010.



**Figure 2.1.8** Uptake of 3 in 1 teenage booster in children reaching their 16th birthday during 01/07/2009 – 30/06/2010.





2.2 Practice level data – Neath Port Talbot LA\*

Random Code	Children reaching 1 year of age				Children reaching 2 years of age			Children reaching 5 years of age				Children reaching 15 years of age				Children reaching 16 years of age									
	Resident children (n)	5 in 1 (n) (%)		MenC (n) (%)		Resident children (n)	MMR1 (n) (%)		Resident children (n)	4 in 1 (pre-school booster) (n) (%)		MMR1 (n) (%)		MMR2 (n) (%)		Resident children (n)	MMR1 (n) (%)		MMR2 (n) (%)		3 in 1 (booster) (n) (%)		Resident children (n)	3 in 1 (booster) (n) (%)	
12	131	129	98.5	129	98.5	130	124	95.4	129	123	95.3	117	90.7	111	86.0	137	129	94.2	122	89.1	69	50.4	132	109	82.6
10	111	103	92.8	103	92.8	103	95	92.2	78	63	80.8	66	84.6	56	71.8	108	101	93.5	83	76.9	18	16.7	103	72	69.9
1	105	102	97.1	102	97.1	112	103	92.0	101	93	92.1	96	95.0	91	90.1	123	119	96.7	109	88.6	46	37.4	112	86	76.8
11	103	97	94.2	97	94.2	97	92	94.8	86	75	87.2	81	94.2	72	83.7	113	105	92.9	99	87.6	41	36.3	99	75	75.8
7	91	86	94.5	85	93.4	89	77	86.5	101	93	92.1	91	90.1	82	81.2	101	96	95.0	92	91.1	29	28.7	111	90	81.1
2	86	81	94.2	80	93.0	101	93	92.1	99	94	94.9	92	92.9	89	89.9	96	91	94.8	85	88.5	29	30.2	120	94	78.3
18	83	80	96.4	79	95.2	92	86	93.5	91	85	93.4	82	90.1	80	87.9	97	91	93.8	78	80.4	40	41.2	105	85	81.0
16	82	74	90.2	73	89.0	77	69	89.6	69	51	73.9	61	88.4	47	68.1	82	78	95.1	69	84.1	25	30.5	82	59	72.0
17	76	75	98.7	75	98.7	75	71	94.7	79	72	91.1	77	97.5	73	92.4	80	71	88.8	63	78.8	30	37.5	93	80	86.0
21	70	62	88.6	62	88.6	70	62	88.6	70	58	82.9	64	91.4	58	82.9	60	54	90.0	44	73.3	12	20.0	78	54	69.2
13	65	63	96.9	63	96.9	83	75	90.4	74	56	75.7	65	87.8	50	67.6	89	83	93.3	71	79.8	30	33.7	80	65	81.3
20	55	55	100.0	55	100.0	36	36	100.0	32	26	81.3	29	90.6	27	84.4	39	37	94.9	36	92.3	10	25.6	58	53	91.4
23	54	54	100	54	100	53	47	88.7	69	67	97.1	67	97.1	64	92.8	70	66	94.3	55	78.6	27	38.6	60	54	90
15	52	51	98.1	49	94.2	50	46	92	69	62	89.9	65	94.2	61	88.4	51	45	88.2	42	82.4	14	27.5	66	55	83.3
14	50	45	90	45	90	31	27	87.1	29	24	82.8	26	89.7	24	82.8	37	35	94.6	31	83.8	14	37.8	23	15	65.2
5	47	47	100	47	100	49	46	93.9	55	54	98.2	51	92.7	49	89.1	54	51	94.4	51	94.4	21	38.9	59	48	81.4
4	34	33	97.1	33	97.1	48	41	85.4	49	44	89.8	46	93.9	44	89.8	51	46	90.2	39	76.5	13	25.5	65	44	67.7
22	33	33	100	33	100	32	31	96.9	29	28	96.6	28	96.6	28	96.6	37	36	97.3	36	97.3	17	45.9	44	34	77.3
6	28	26	92.9	26	92.9	41	37	90.2	35	30	85.7	31	88.6	28	80	28	25	89.3	17	60.7	9	32.1	26	22	84.6
8	28	28	100	28	100	21	21	100	20	20	100	19	95	19	95	27	27	100	25	92.6	6	22.2	29	22	75.9
19	25	25	100	25	100	30	28	93.3	16	16	100	16	100	16	100	29	26	89.7	26	89.7	8	27.6	22	15	68.2
9	23	19	82.6	19	82.6	28	25	89.3	18	11	61.1	14	77.8	8	44.4	22	17	77.3	13	59.1	6	27.3	20	17	85
3	12	10	83.3	9	75	10	9	90	11	8	72.7	10	90.9	8	72.7	16	15	93.8	14	87.5	4	25	21	10	47.6
Unknown	3	2	66.7	1	33.3	10	8	80	14	9	64.3	9	64.3	8	64.3	14	10	71.4	9	64.3	2	14.3	22	8	36.4

\*Data is presented as immunisations given rather than details for specific antigens:

5 in 1 vaccine Diphtheria, Tetanus, Pertussis, Polio, *Haemophilus influenzae* type b (Hib) (using pertussis as proxy)

MenC Meningococcal group C

MMR1 Measles, Mumps, Rubella (1<sup>st</sup> dose)

MMR2 Measles, Mumps, Rubella (2<sup>nd</sup> dose)

4 in 1 Diphtheria, Tetanus, Pertussis, Polio (using pertussis as proxy) – Pre-school booster

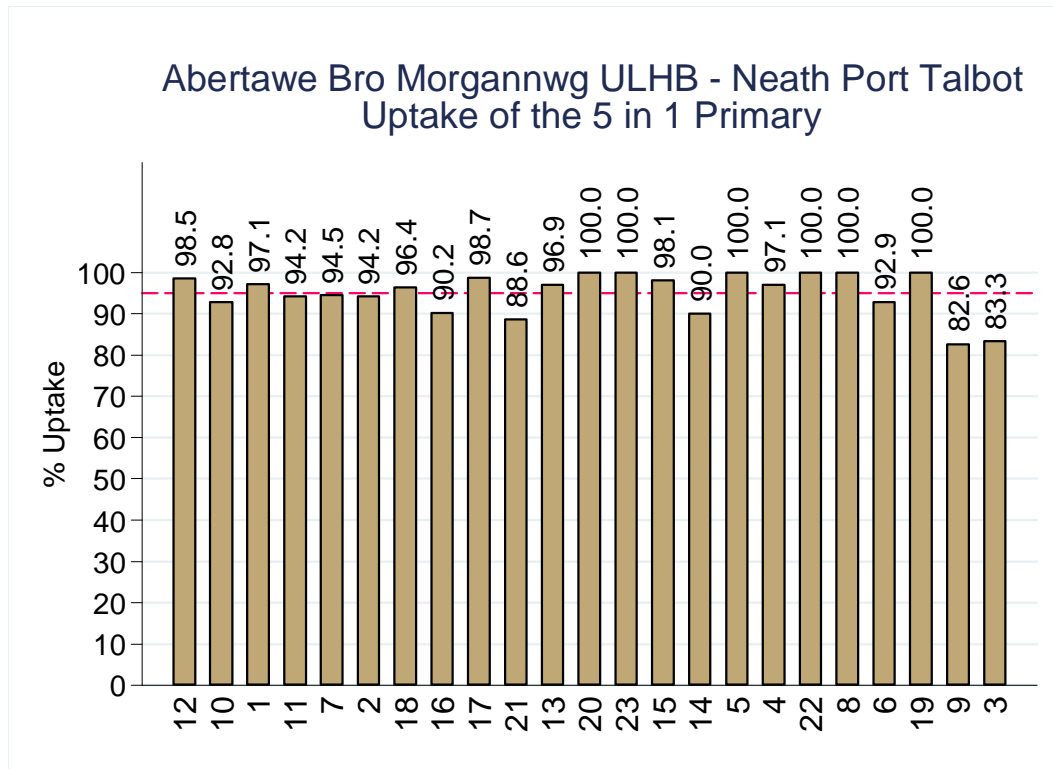
3 in 1 (booster) Diphtheria, Tetanus, Polio (using diphtheria as proxy) – Teenage booster

Below 90%

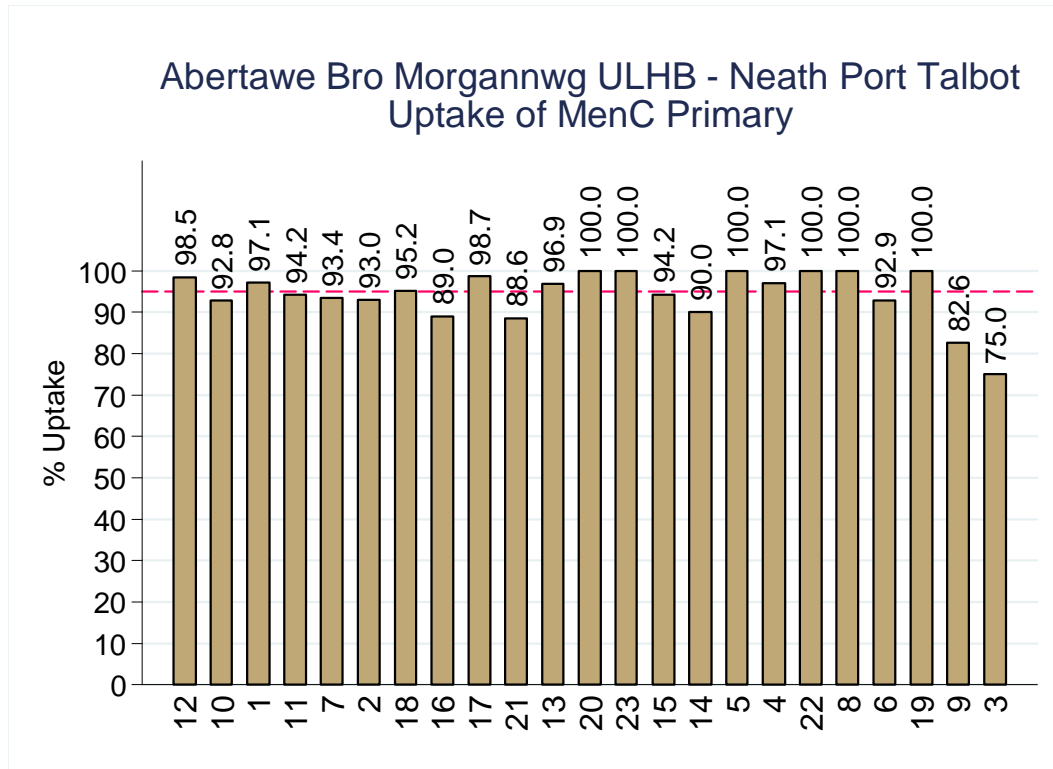
90% up to 95%

95% and higher

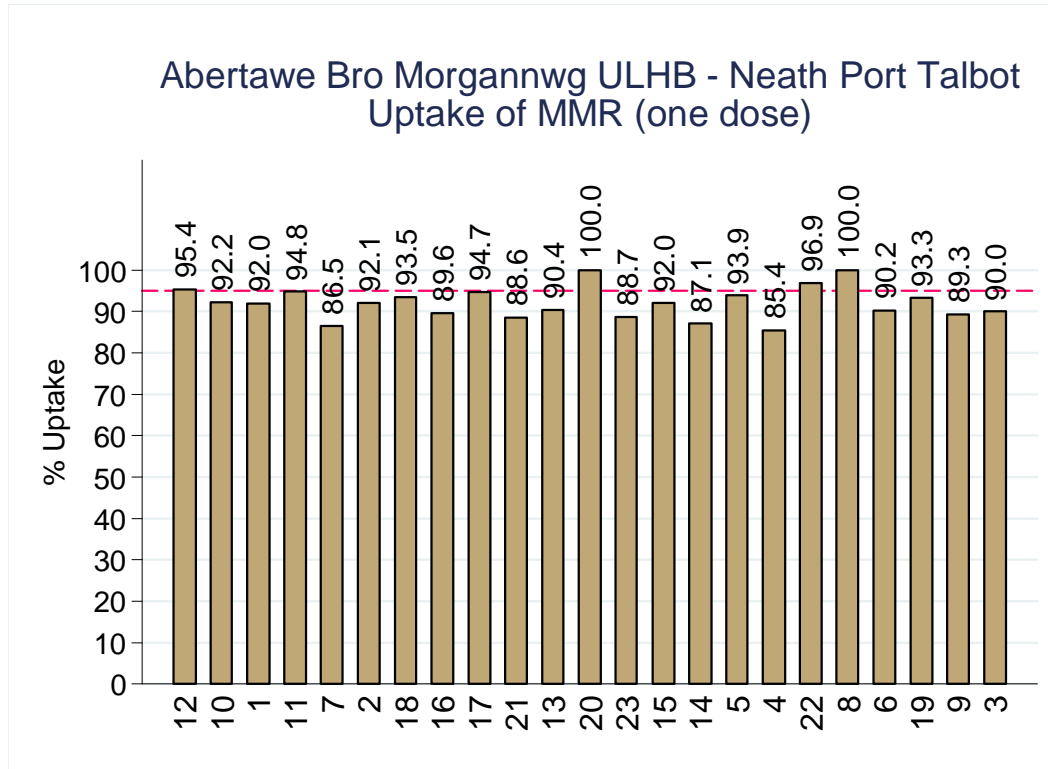
**Figure 2.2.1** Uptake of 5 in 1 vaccine in children reaching their first birthday during 01/07/2009 – 30/06/2010.



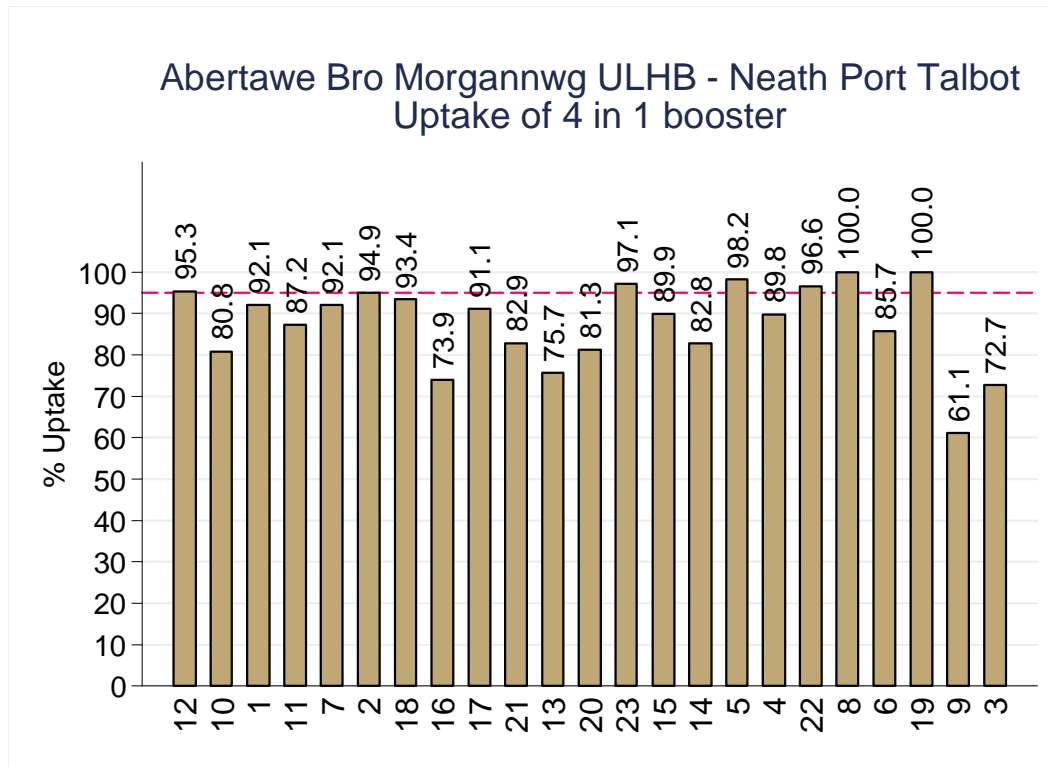
**Figure 2.2.2** Uptake of MenC vaccine in children reaching their first birthday during 01/07/2009 – 30/06/2010.



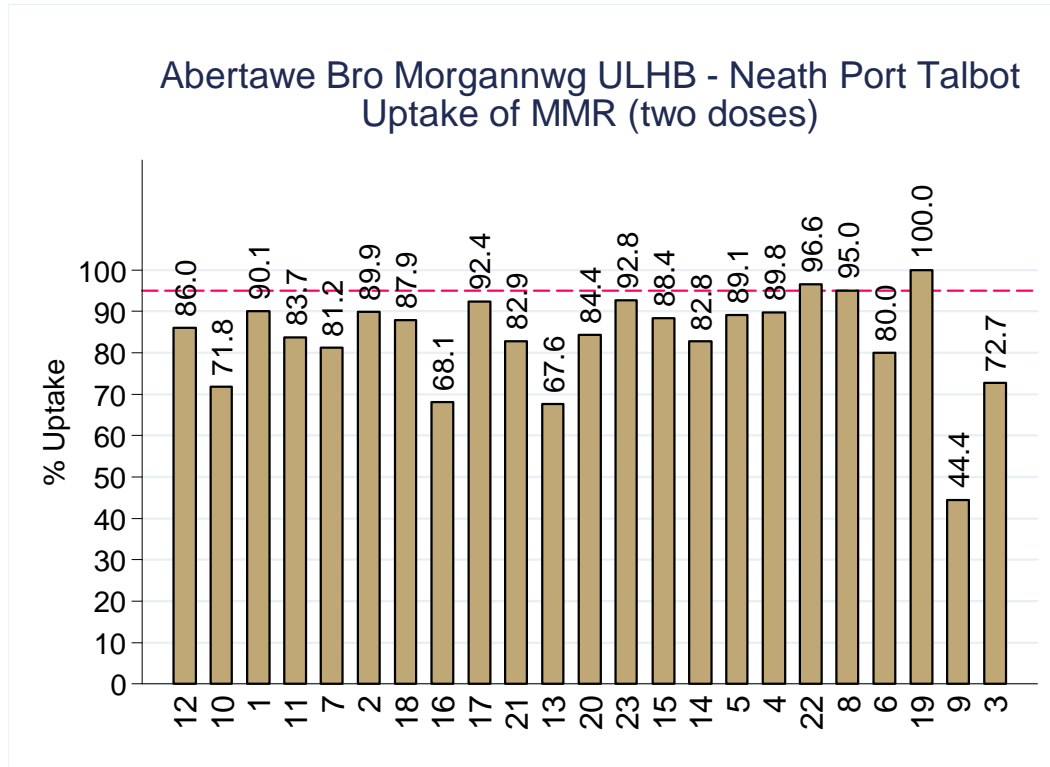
**Figure 2.2.3** Uptake of MMR vaccine (one dose) in children reaching their second birthday during 01/07/2009 – 30/06/2010.



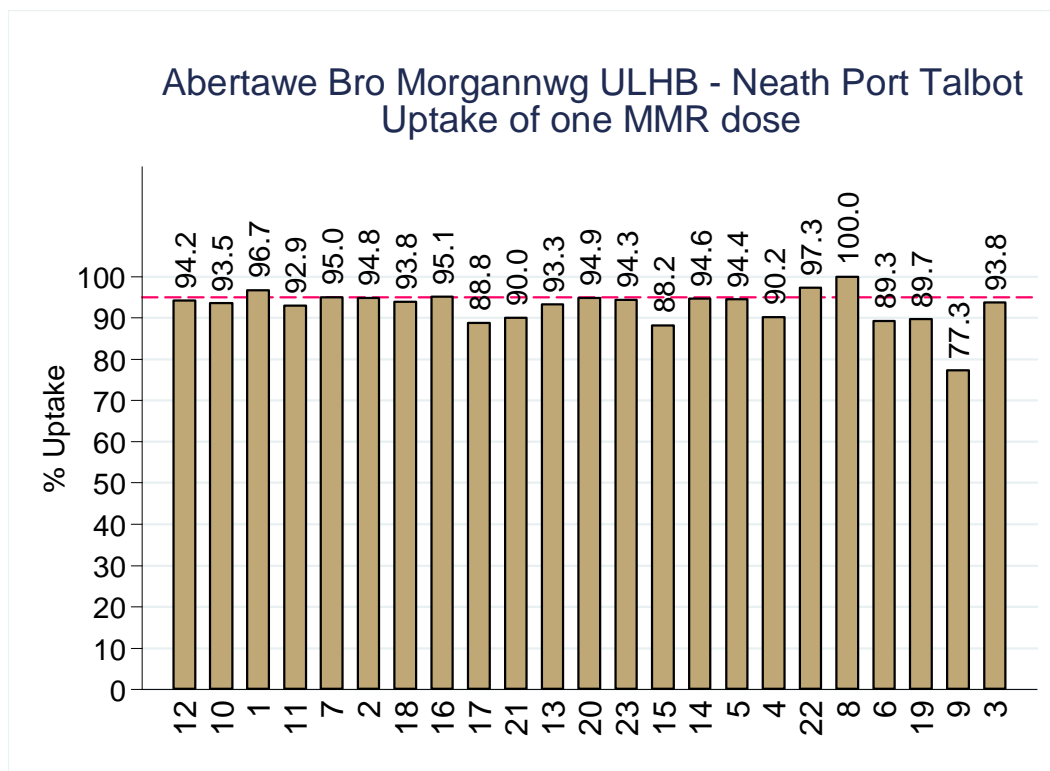
**Figure 2.2.4** Uptake of 4 in 1 vaccine in children reaching their fifth birthday during 01/07/2009 – 30/06/2010.



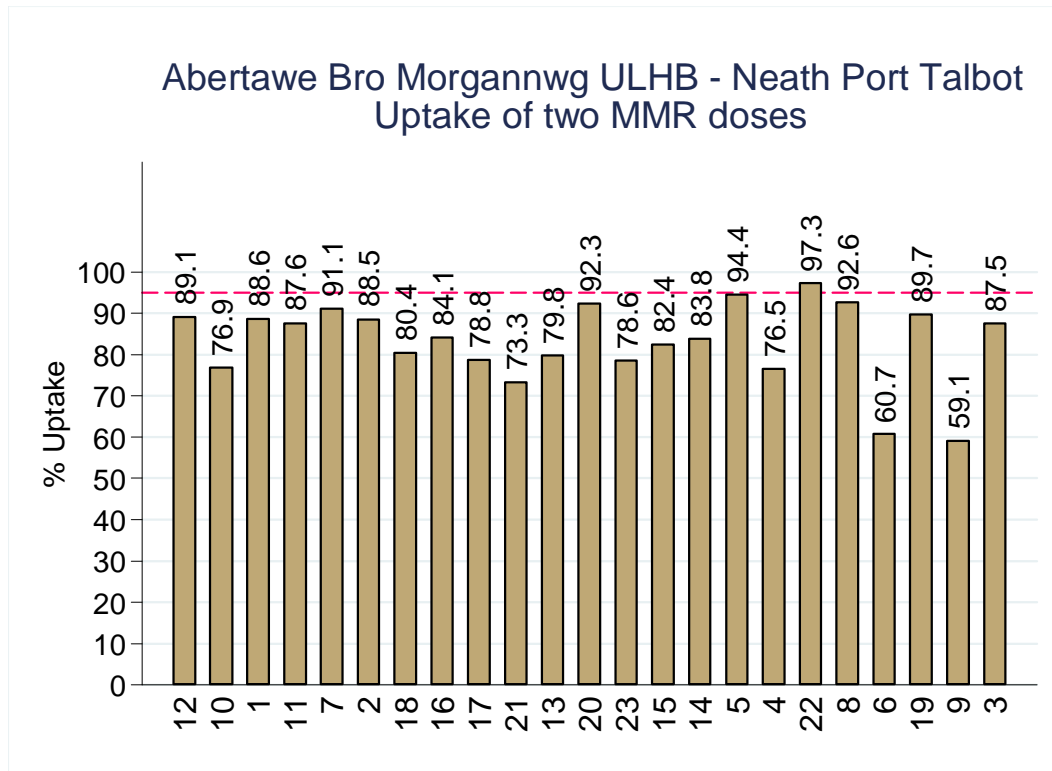
**Figure 2.2.5** Uptake of MMR vaccine (two doses) in children reaching their fifth birthday during 01/07/2009 – 30/06/2010.



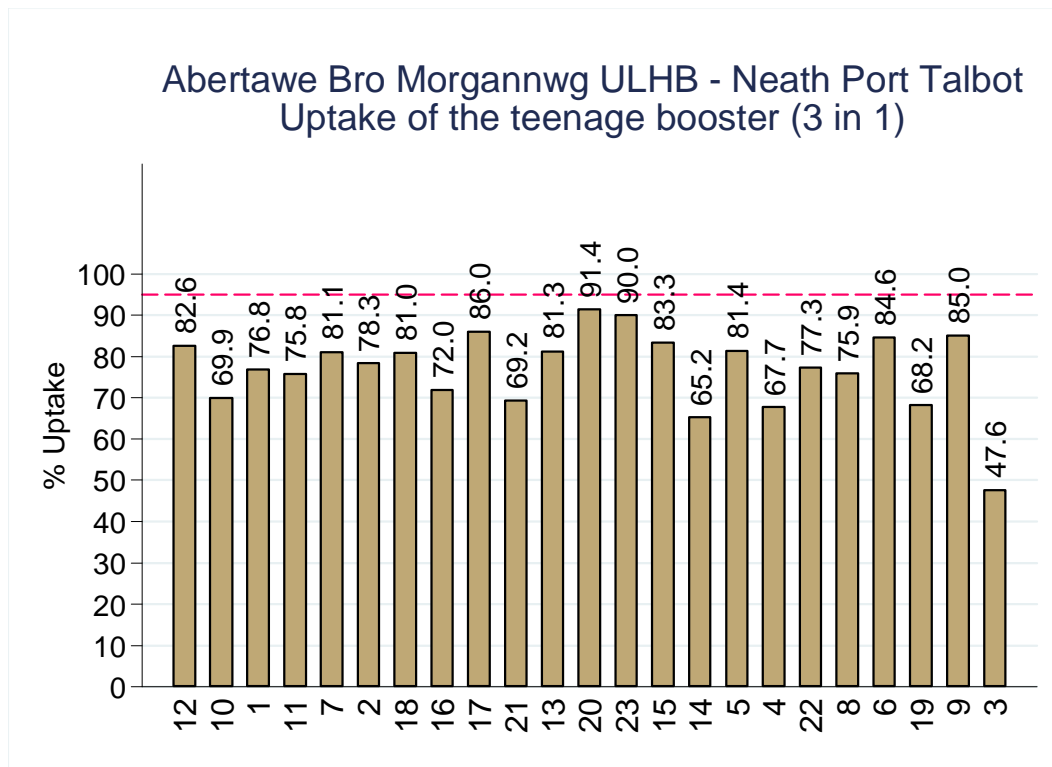
**Figure 2.2.6** Uptake of MMR vaccine (one dose) in children reaching their 15th birthday during 01/07/2009 – 30/06/2010.



**Figure 2.2.7** Uptake of MMR vaccine (two doses) in children reaching their 15th birthday during 01/07/2009 – 30/06/2010.



**Figure 2.2.8** Uptake of 3 in 1 teenage booster in children reaching their 16th birthday during 01/07/2009 – 30/06/2010.



2.2 Practice level data – Swansea LA\*

Random Code	Children reaching 1 year of age				Children reaching 2 years of age			Children reaching 5 years of age					Children reaching 15 years of age					Children reaching 16 years of age	
	Resident children (n)	5 in 1 (n) (%)	MenC (n) (%)	Resident children (n)	MMR1 (n) (%)	Resident children (n)	4 in 1 (pre-school booster) (n) (%)	MMR1 (n) (%)	MMR2 (n) (%)	Resident children (n)	MMR1 (n) (%)	MMR2 (n) (%)	3 in 1 (booster) (n) (%)	Resident children (n)	3 in 1 (booster) (n) (%)				
31	162	159 98.1	153 94.4	209	192 91.9	186	168 90.3	167 89.8	153 82.3	217	190 87.6	156 71.9	96 44.2	267	234 87.6				
25	153	151 98.7	151 98.7	166	155 93.4	141	127 90.1	129 91.5	117 83.0	118	107 90.7	93 78.8	57 48.3	137	110 80.3				
30	120	113 94.2	113 94.2	130	121 93.1	124	111 89.5	118 95.2	107 86.3	120	114 95.0	104 86.7	58 48.3	133	105 78.9				
3	110	108 98.2	108 98.2	118	112 94.9	115	115 100.0	108 93.9	108 93.9	157	145 92.4	134 85.4	69 43.9	143	123 86.0				
32	110	108 98.2	108 98.2	109	103 94.5	90	76 84.4	83 92.2	72 80.0	89	80 89.9	67 75.3	32 36.0	88	71 80.7				
15	107	103 96.3	103 96.3	93	81 87.1	94	83 88.3	89 94.7	77 81.9	82	71 86.6	59 72.0	29 35.4	87	70 80.5				
22	107	104 97.2	104 97.2	114	108 94.7	86	72 83.7	78 90.7	67 77.9	94	86 91.5	73 77.7	43 45.7	75	57 76.0				
9	96	90 93.8	90 93.8	96	90 93.8	80	73 91.3	77 96.3	69 86.3	75	68 90.7	56 74.7	29 38.7	114	89 78.1				
29	96	94 97.9	94 97.9	97	90 92.8	84	82 97.6	82 97.6	80 95.2	76	68 89.5	59 77.6	29 38.2	79	64 81.0				
12	96	94 97.9	93 96.9	86	82 95.3	89	82 92.1	80 89.9	76 85.4	122	115 94.3	103 84.4	72 59.0	105	89 84.8				
24	94	91 96.8	89 94.7	104	94 90.4	72	63 87.5	66 91.7	59 81.9	71	67 94.4	59 83.1	38 53.5	78	64 82.1				
23	92	88 95.7	88 95.7	111	105 94.6	80	78 97.5	78 97.5	74 92.5	99	96 97.0	87 87.9	50 50.5	102	94 92.2				
14	92	89 96.7	88 95.7	93	84 90.3	82	74 90.2	77 93.9	73 89.0	74	69 93.2	64 86.5	29 39.2	81	61 75.3				
10	91	86 94.5	85 93.4	103	92 89.3	91	84 92.3	88 96.7	83 91.2	70	64 91.4	55 78.6	23 32.9	105	74 70.5				
36	88	86 97.7	86 97.7	74	70 94.6	78	77 98.7	74 94.9	74 94.9	67	65 97.0	57 85.1	31 46.3	66	46 69.7				
20	87	83 95.4	82 94.3	102	96 94.1	82	78 95.1	81 98.8	75 91.5	100	95 95.0	88 88.0	38 38.0	90	70 77.8				
8	85	83 97.6	83 97.6	95	91 95.8	62	59 95.2	59 95.2	55 88.7	90	85 94.4	71 78.9	39 43.3	82	72 87.8				
28	79	78 98.7	77 97.5	73	69 94.5	67	63 94.0	62 92.5	59 88.1	63	60 95.2	50 79.4	26 41.3	76	63 82.9				
13	73	73 100.0	72 98.6	78	75 96.2	64	61 95.3	59 92.2	56 87.5	69	65 94.2	55 79.7	29 42.0	78	63 80.8				
5	67	65 97.0	65 97.0	69	61 88.4	60	51 85.0	51 85.0	47 78.3	50	47 94.0	42 84.0	18 36.0	45	33 73.3				
1	65	61 93.8	59 90.8	72	65 90.3	59	54 91.5	55 93.2	52 88.1	60	59 98.3	57 95.0	30 50.0	62	51 82.3				
27	63	58 92.1	57 90.5	67	60 89.6	58	46 79.3	52 89.7	48 82.8	66	62 93.9	52 78.8	21 31.8	50	37 74.0				
26	60	57 95.0	57 95.0	46	45 97.8	59	53 89.8	55 93.2	52 88.1	78	68 87.2	60 76.9	33 42.3	74	66 89.2				
18	51	49 96.1	49 96.1	55	54 98.2	46	41 89.1	42 91.3	39 84.8	49	45 91.8	42 85.7	21 42.9	65	47 72.3				
7	49	46 93.9	46 93.9	44	43 97.7	46	40 87.0	46 100.0	38 82.6	47	46 97.9	37 78.7	18 38.3	51	42 82.4				
33	47	46 97.9	44 93.6	36	33 91.7	47	42 89.4	42 89.4	36 76.6	52	49 94.2	39 75.0	20 38.5	46	33 71.7				
21	46	46 100.0	46 100.0	57	54 94.7	45	37 82.2	37 82.2	31 68.9	51	48 94.1	38 74.5	25 49.0	53	45 84.9				
2	45	44 97.8	42 93.3	54	48 88.9	57	53 93.0	54 94.7	51 89.5	54	48 88.9	42 77.8	15 27.8	60	47 78.3				
19	44	41 93.2	41 93.2	67	64 95.5	58	52 89.7	53 91.4	48 82.8	83	82 98.8	69 83.1	41 49.4	56	46 82.1				
4	37	36 97.3	36 97.3	33	28 84.8	40	40 100.0	35 87.5	35 87.5	42	41 97.6	38 90.5	18 42.9	36	29 80.6				
17	36	35 97.2	35 97.2	34	30 88.2	29	29 100.0	29 100.0	28 96.6	32	31 96.9	25 78.1	11 34.4	29	24 82.8				
6	29	29 100.0	29 100.0	34	34 100.0	39	34 87.2	37 94.9	33 84.6	35	32 91.4	31 88.6	15 42.9	29	24 82.8				
Unknown	20	15 75.0	14 70.0	14	12 85.7	22	18 81.8	19 86.4	18 81.8	33	20 60.6	17 51.5	7 21.2	40	10 25.0				
35	18	18 100.0	18 100.0	16	15 93.8	16	13 81.3	13 81.3	12 75.0	13	12 92.3	10 76.9	3 23.1	18	16 88.9				
16	12	12 100.0	12 100.0	14	12 85.7	10	9 90.0	9 90.0	9 90.0	14	14 100.0	13 92.9	9 64.3	34	28 82.4				
34	0	0	0	0	0	0	0	0	0	1	0 0.0	0 0.0	0 0.0	1	0 0.0				

**\*Data is presented as immunisations given rather than details for specific antigens:**

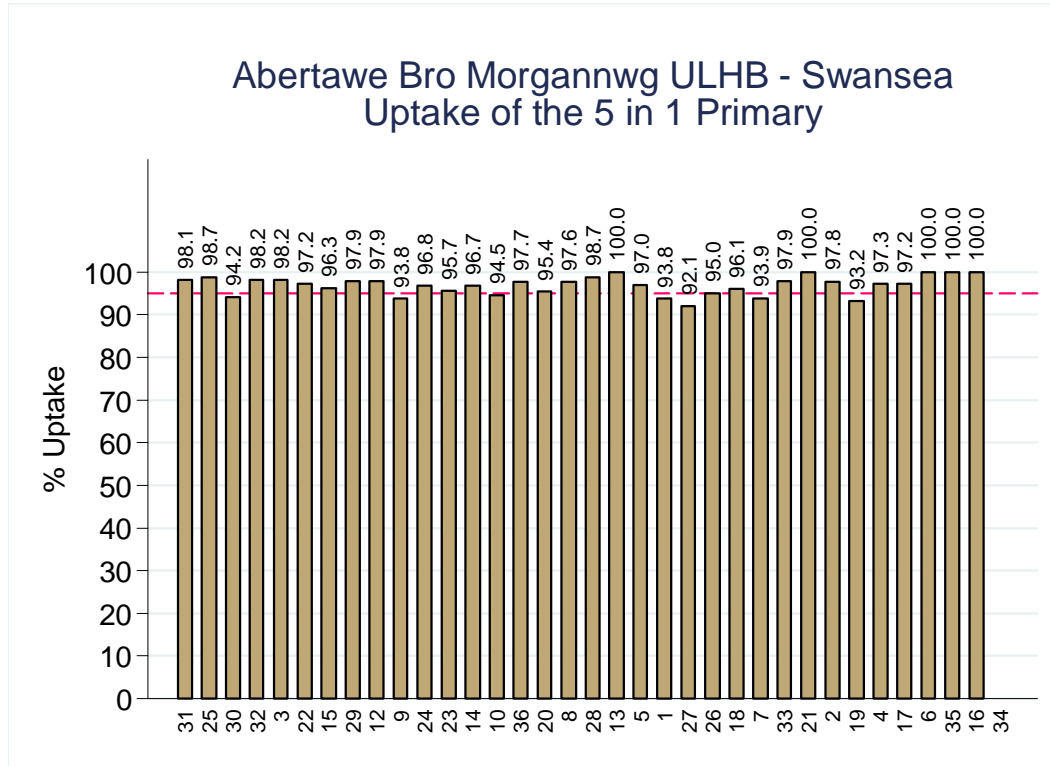
<b>5 in 1 vaccine</b>	Diphtheria, Tetanus, Pertussis, Polio, <i>Haemophilus influenzae</i> type b (Hib) (using pertussis as proxy)
<b>MenC</b>	Meningococcal group C
<b>MMR1</b>	Measles, Mumps, Rubella (1 <sup>st</sup> dose)
<b>MMR2</b>	Measles, Mumps, Rubella (2 <sup>nd</sup> dose)
<b>4 in 1</b>	Diphtheria, Tetanus, Pertussis, Polio (using pertussis as proxy) – Pre-school booster
<b>3 in 1 (booster)</b>	Diphtheria, Tetanus, Polio (using diphtheria as proxy) – Teenage booster

**Below 90%**

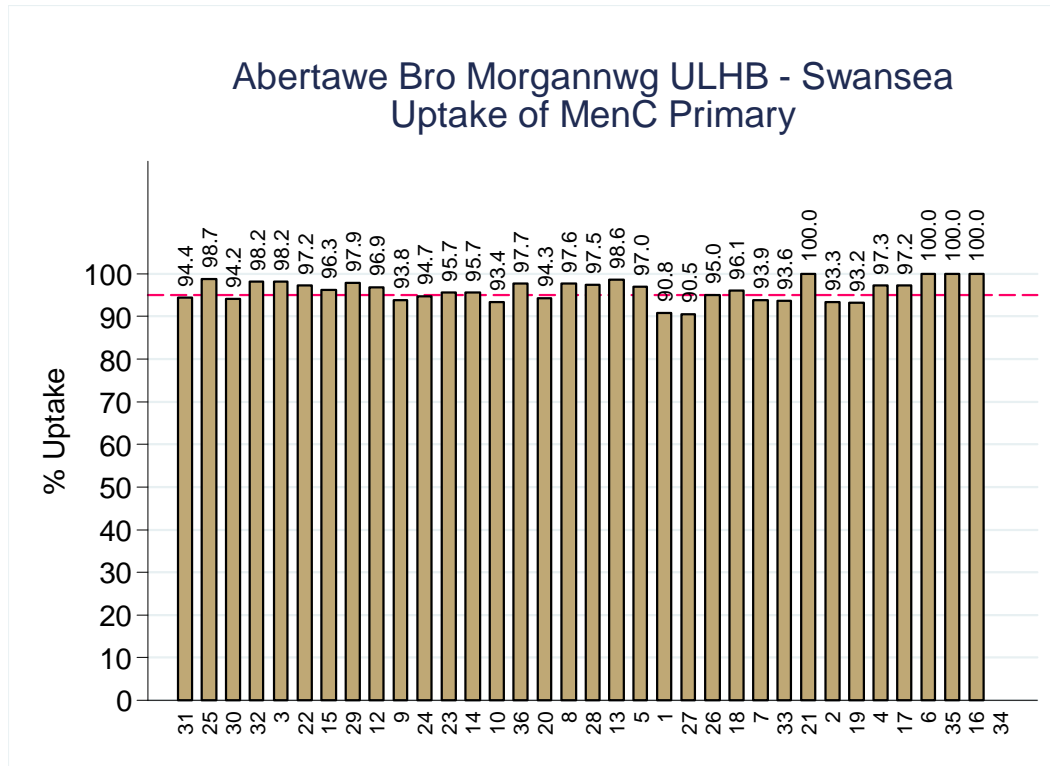
**90% up to 95%**

**95% and higher**

**Figure 2.3.1** Uptake of 5 in 1 vaccine in children reaching their first birthday during 01/07/2009 – 30/06/2010.

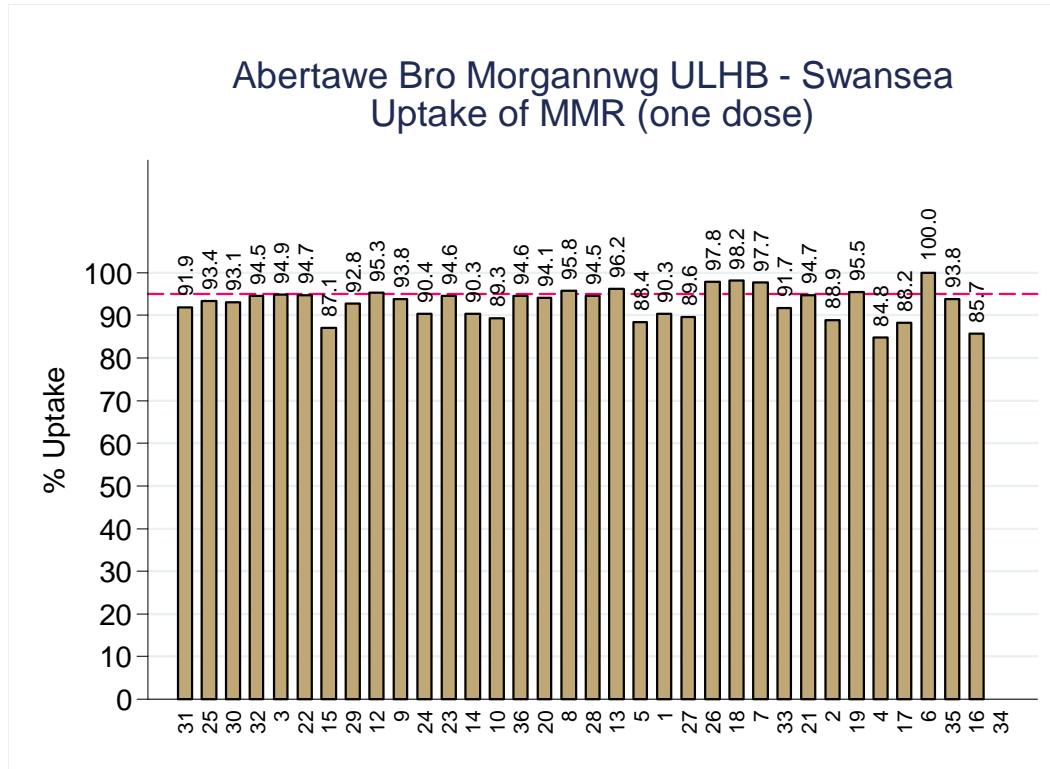


**Figure 2.3.2** Uptake of MenC vaccine in children reaching their first birthday during 01/07/2009 – 30/06/2010.

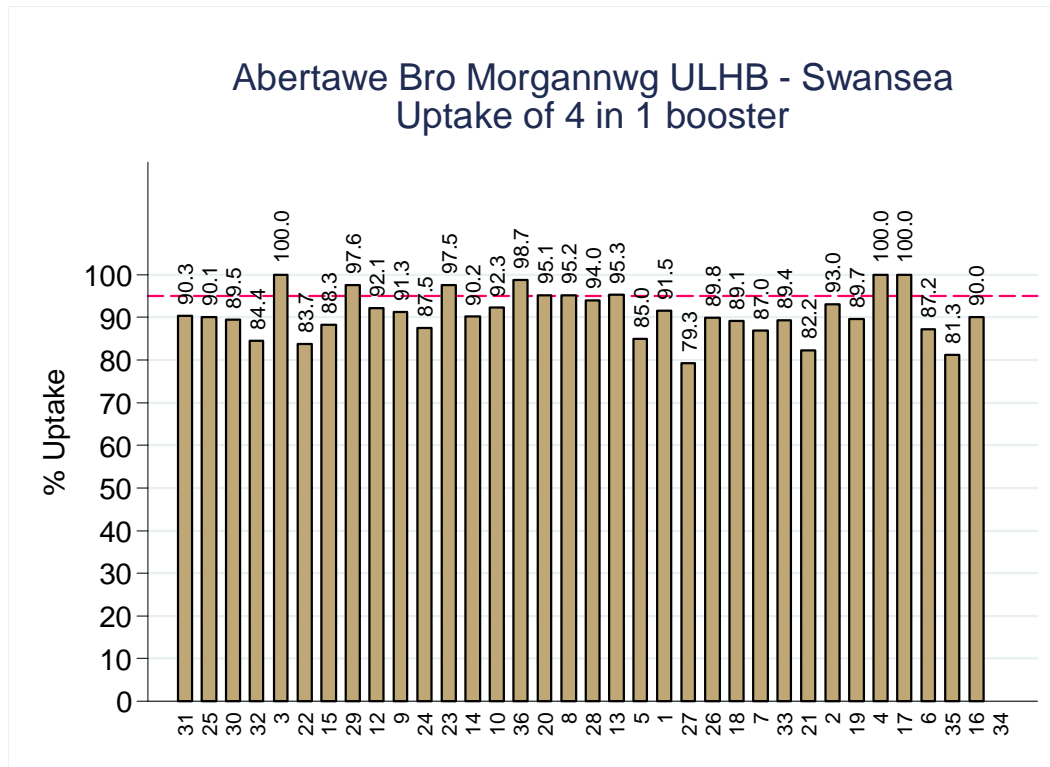




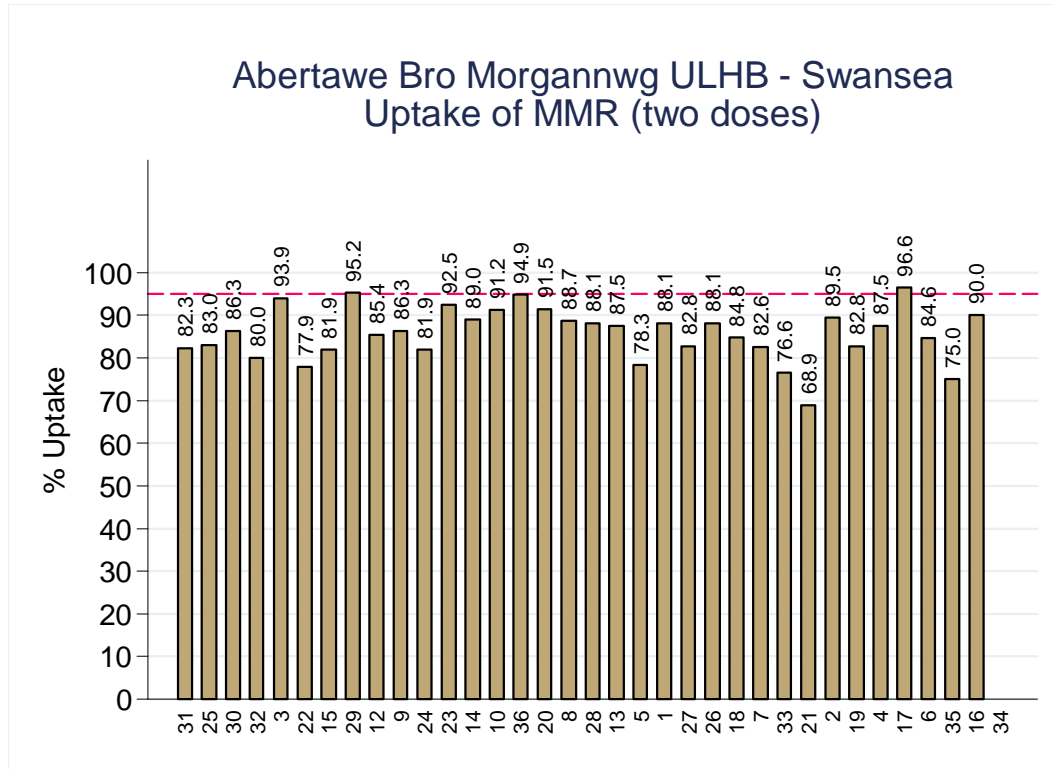
**Figure 2.3.3** Uptake of MMR vaccine (one dose) in children reaching their second birthday during 01/07/2009 – 30/06/2010.



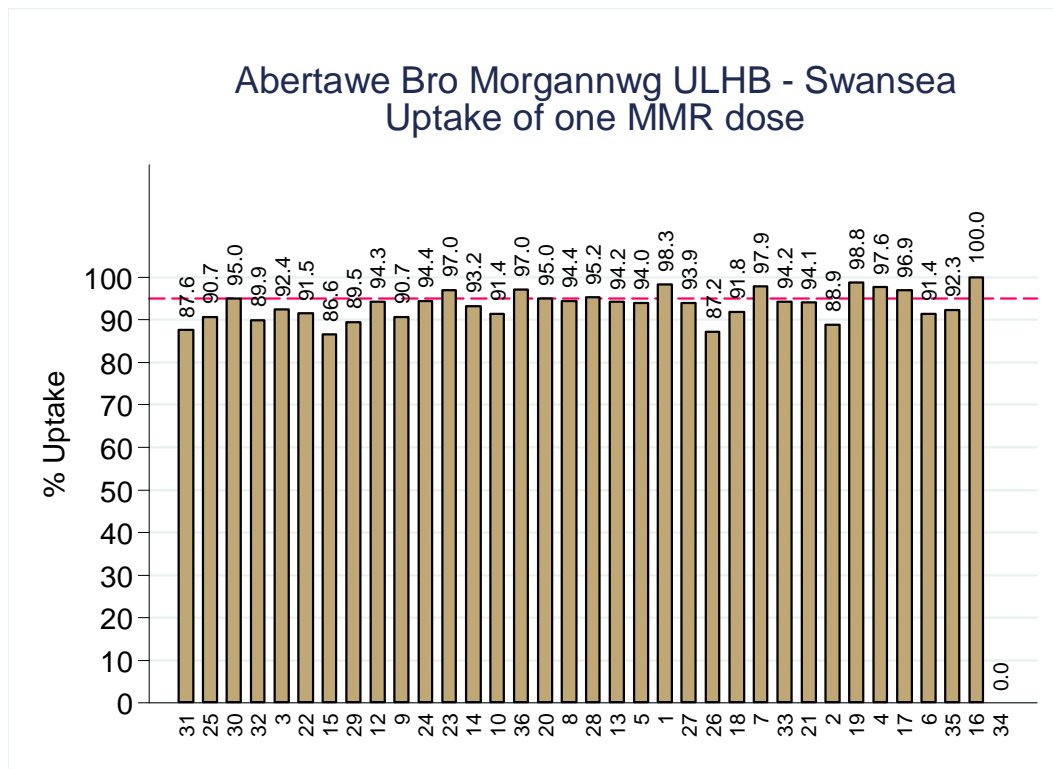
**Figure 2.3.4** Uptake of 4 in 1 vaccine in children reaching their fifth birthday during 01/07/2009 – 30/06/2010.



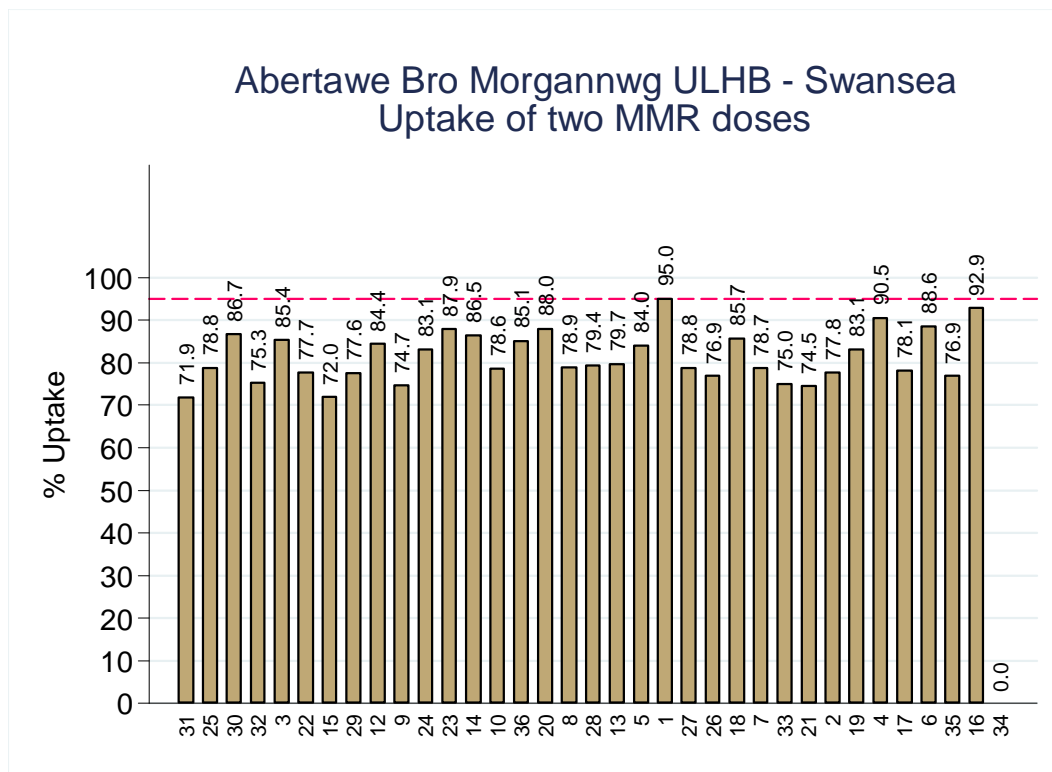
**Figure 2.3.5** Uptake of MMR vaccine (two doses) in children reaching their fifth birthday during 01/07/2009 – 30/06/2010.



**Figure 2.3.6** Uptake of MMR vaccine (one dose) in children reaching their 15th birthday during 01/07/2009 – 30/06/2010.



**Figure 2.3.7** Uptake of MMR vaccine (two doses) in children reaching their 15th birthday during 01/07/2009 – 30/06/2010.



**Figure 2.3.8** Uptake of 3 in 1 teenage booster in children reaching their 16th birthday during 01/07/2009 – 30/06/2010.

