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Practice Level Childhood Immunisation Uptake Report

**Abertawe Bro Morgannwg University HB
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Distribution:

- **NHS Wales**

Purpose and summary of document:

To assist Health Boards and General Practice in improving uptake of immunisation against childhood disease. This report contains a summary of the current Health Board childhood immunisation picture, maps of immunisation coverage at Middle Super Output Area level, tables and charts detailing uptake at General Practice level for each Health Board Local Authority.

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1. Purpose and Background

This report is intended to assist Health Boards and general practice in improving uptake of immunisation against childhood disease. Immunisation saves lives, annually preventing millions of deaths worldwide. The target uptake for all scheduled childhood immunisations at Health Board level 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.

Uptake of routine childhood immunisation is summarised in three different ways in this report:

- a. Quarterly uptake trends at Health Board and Local Authority (LA) level.
- b. Geographical coverage of immunisation in the Health Board, at Middle Super Output Area (MSOA) level.
- c. Uptake at General Practice level for practices located within the Health Board.

The ultimate source of all information in this report is the National Community Child Health Database (NCCHD), however the way that immunisation uptake data is analysed and presented varies slightly for each of the above.

Quarterly Uptake Trends

Trends charts in this report are compiled using the uptake statistics that are reported each quarter in the Public Health Wales COVER report. These statistics are based on the number of children who are resident in each Health Board or LA area and the percentage who are recorded on the NCCHD as having been immunised before the appropriate birthday. Quarterly and annual COVER reports can be downloaded from the Public Health Wales Vaccine Preventable Disease Programme (VPDP) intranet site from the COVER statistics link below, details on how the reports are compiled can also be found here.

VPDP intranet site - COVER statistics page:

<http://www.publichealthwales.wales.nhs.uk/immunisation-uptake>

VPDP intranet site (home page):

<http://howis.wales.nhs.uk/immunisation>

Geographical coverage of immunisation

This report also contains maps showing the coverage of selected routine childhood immunisations in Health Board resident children. The coverage maps in this report use units of geography called Middle Super Output Areas (MSOA). There are 413 MSOA in Wales. MSOA fit within LA boundaries and the average population of an

MSOA in Wales is approximately 7,000 people (but it can be as low as 5,000). In this report, coverage maps are presented alongside a reference map for the Health Board to assist in identifying areas. More information on MSOA in Wales is available from the [Public Health Wales Observatory](#).

The maps in this report show coverage of selected immunisations in children resident in the appropriate MSOA reaching their first, second or fifth birthdays during the 12 month period.

Uptake at General Practice level

This report contains general practice level uptake rates for routine immunisations, in children reaching their first, second, fifth, 15th and 16th birthdays during the 12 month period. Uptake rates at General Practice level are calculated based on children who are recorded as being registered with each practice located in the Health Board. 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 on children resident within LA boundaries, not on practice registered populations. Practice level data is presented here using anonymous codes, the Health Board Immunisation Coordinator holds a key that can be used to identify practices. The 95% uptake target is included on the charts in this report only as a guide (this target applies to the Health Board as a whole). Practice level charts and tables in this report may refer to small practices with low numbers of children, this should be taken into account when comparing uptake between practices. This report is intended to act as a guide to where there may be problems affecting immunisation uptake or immunisation data quality.

All data contained in this report is taken from the NCCHD. The quality of the information in the NCCHD, and therefore in this report, is dependent on the completeness of Health Board Child Health records and return of forms from practices to local Child Health Offices.

2. Health Board COVER summary

The chart below summarises the latest uptake rates for the Health Board, please refer to the VPDP intranet site for the most up to date version of this chart.

Abertawe Bro Morgannwg UHB Summary - COVER101

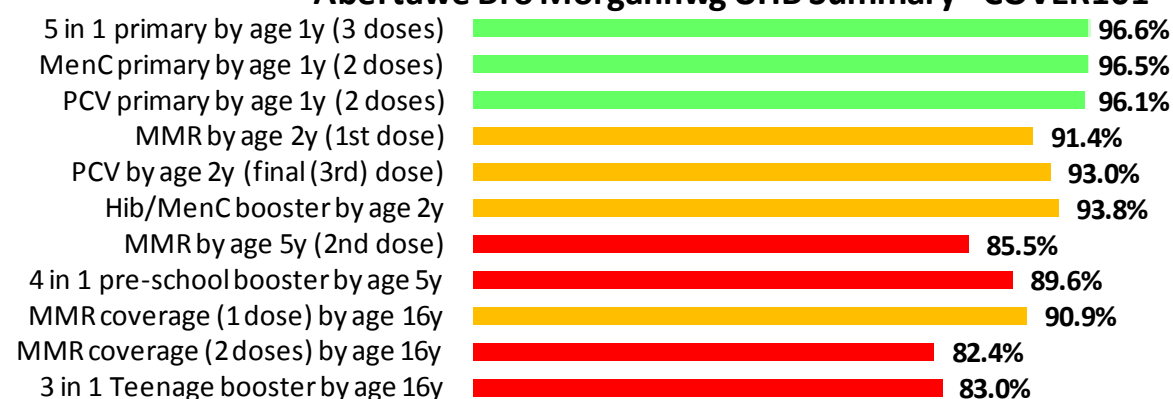


Figure 2.1 Health Board summary of uptake from latest quarterly COVER report

Latest COVER data can be found on the VPDP intranet site:

<http://nww.publichealthwales.wales.nhs.uk/immunisation-uptake>

and on the Public Health Wales Health Protection internet site:

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

3. Health Board/ LA trends and uptake data

Figure 3.1 Health Board uptake trends from quarterly COVER reports*

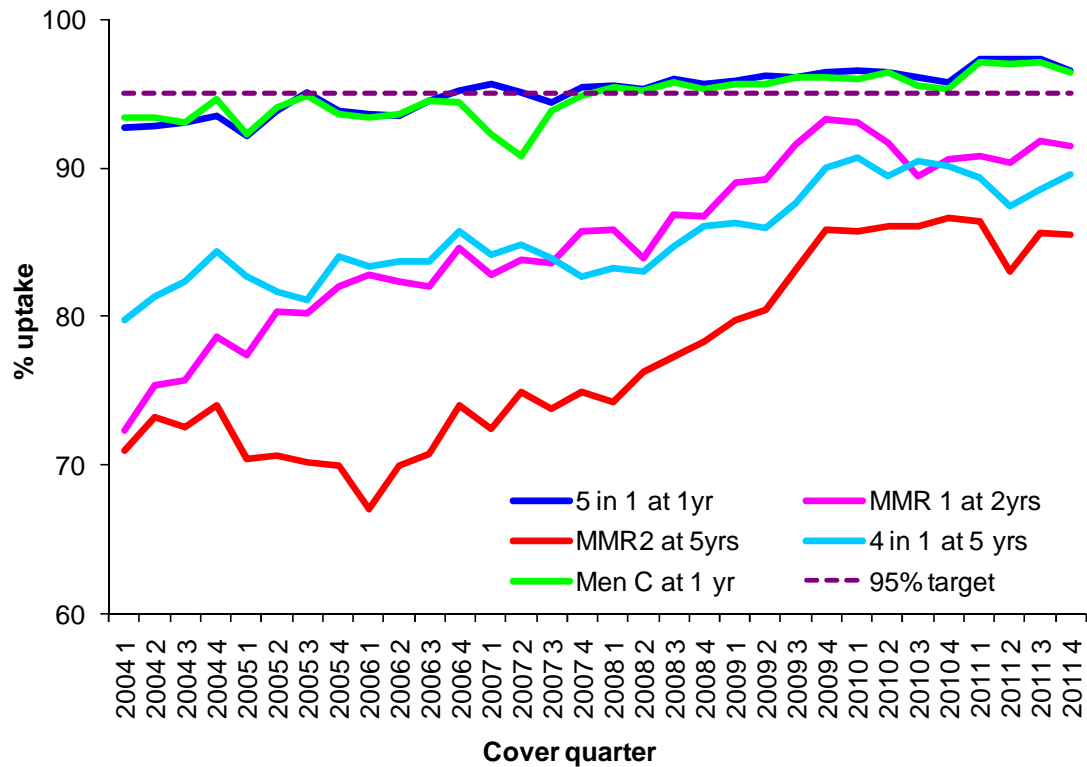
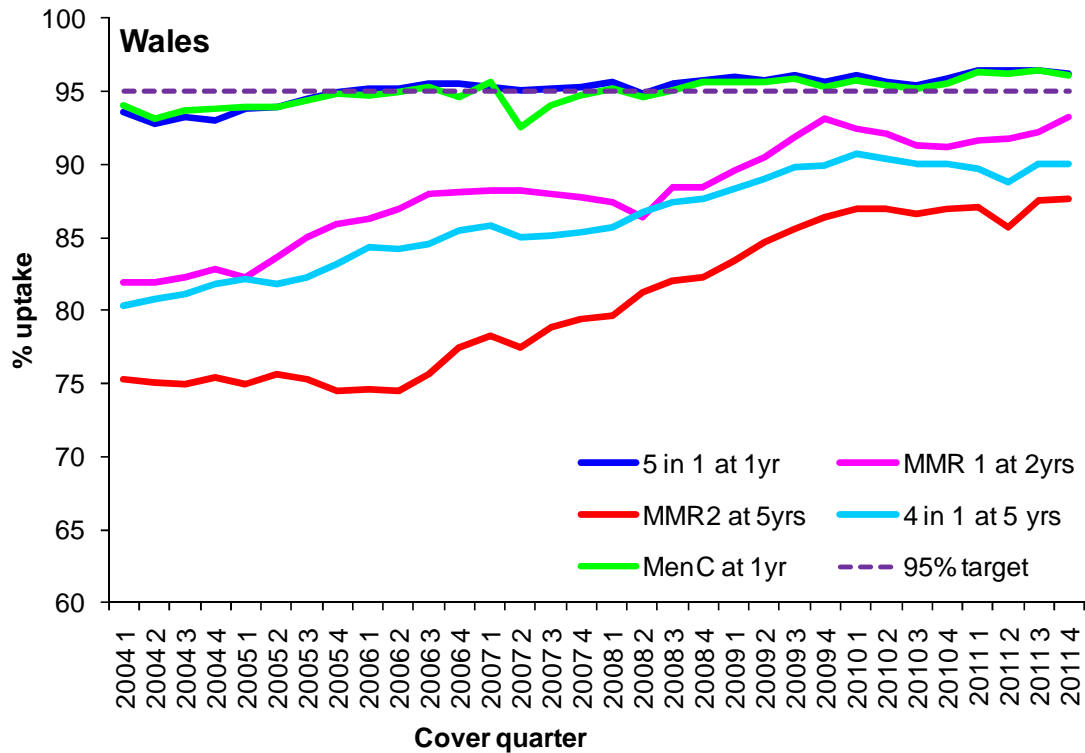


Figure 3.2 National uptake trends from quarterly COVER reports *

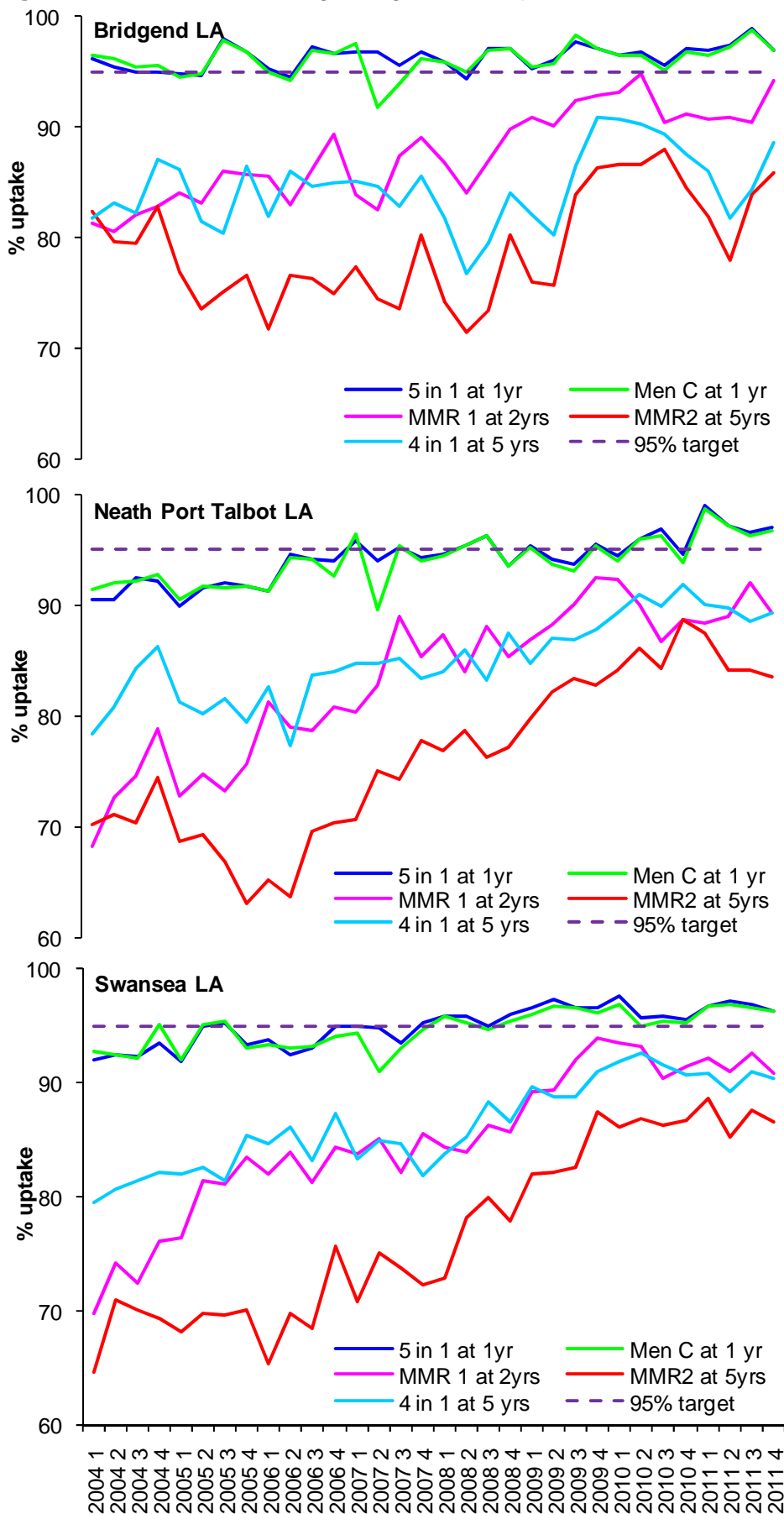


* Source – Public Health Wales quarterly COVER reports.

Intranet link: <http://howis.wales.nhs.uk/sites3/home.cfm?orgid=474>

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

Figure 3.3 Abertawe Bro Morgannwg UHB LA uptake trends



4. Coverage of immunisation by Health Board Middle Super Output Area (MSOA)

Figure 4.1 Uptake of the 5 in 1 primary in Health Board resident children reaching one year of age during 01/01/2011 – 31/12/2011, by MSOA of residence

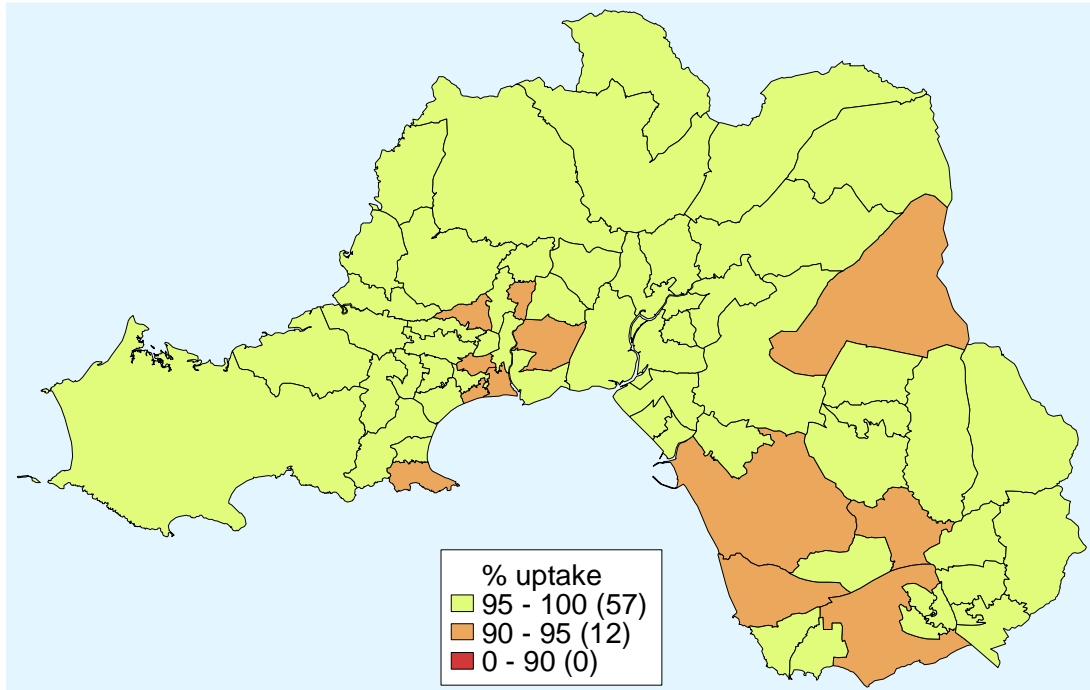


Figure 4.2 Reference map for Health Board area



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Figure 4.3 Uptake of MMR dose one in Health Board resident children reaching two years of age during 01/01/2011 – 31/12/2011, by MSOA of residence

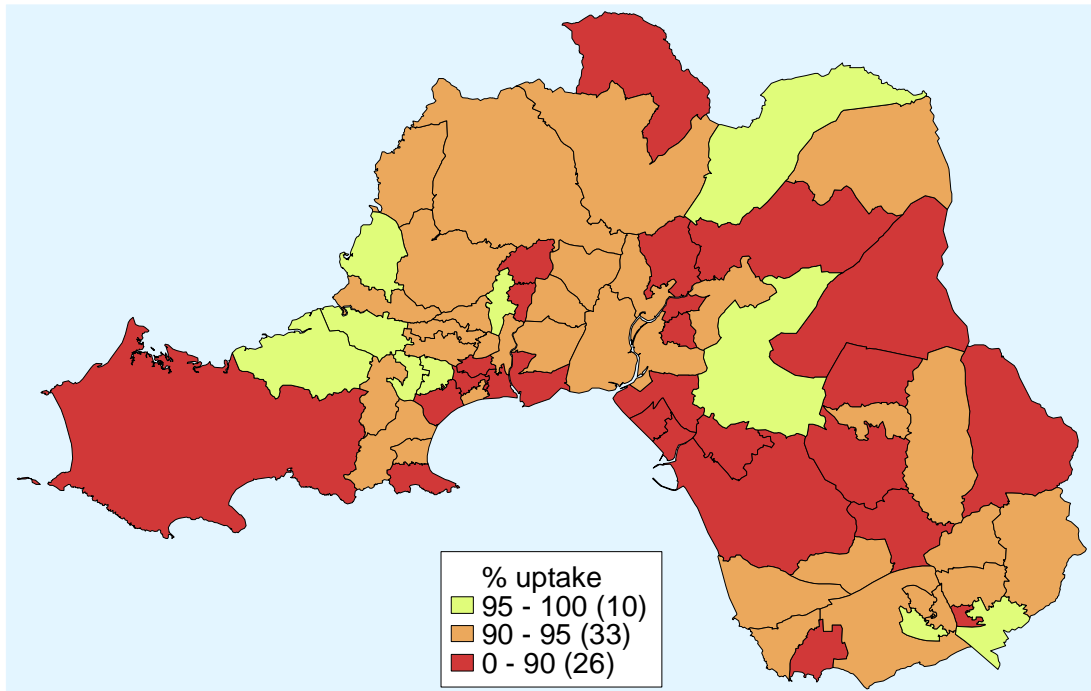


Figure 4.4 Reference map for Health Board area



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Figure 4.5 Uptake of MMR dose two in Health Board resident children reaching five years of age during 01/01/2011 – 31/12/2011, by MSAO of residence

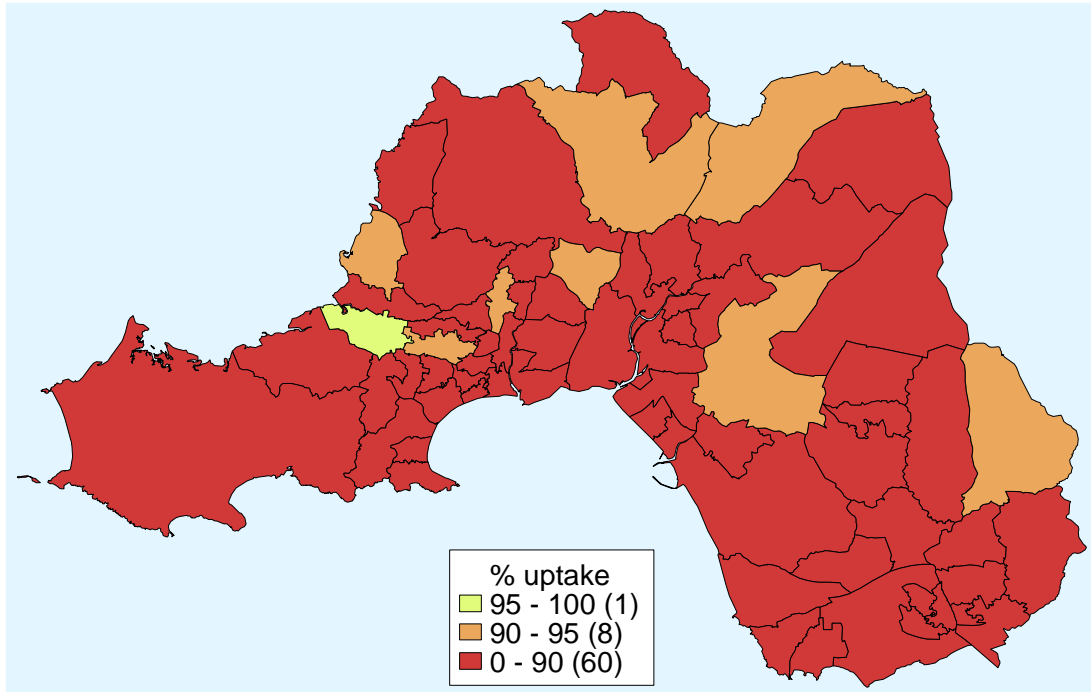


Figure 4.6 Reference map for Health Board area



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Figure 4.7 Uptake of the 4 in 1 preschool booster in Health Board resident children reaching five years of age during 01/01/2011 – 31/12/2011, by MSOA of residence

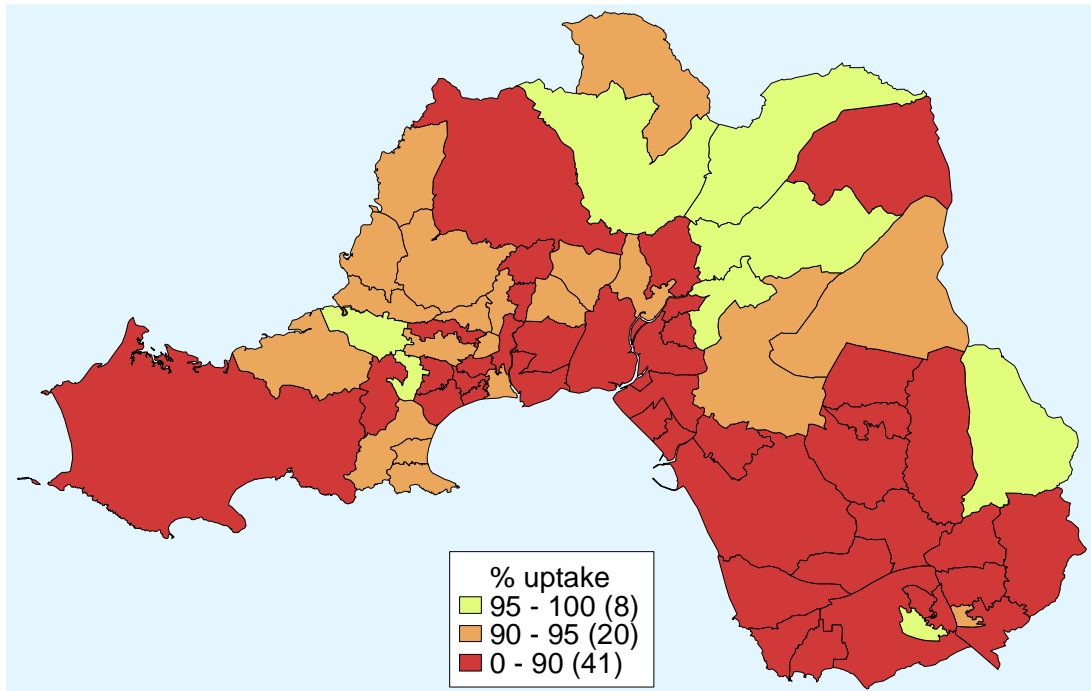


Figure 4.8 Reference map for Health Board area



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5. General Practice level data

5.1 Bridgend LA

Table 5.1 Summary of coverage for children reaching the relevant birthday between 01/01/2011 and 31/12/2012*

Practice 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) (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	209	207	99.0	207	99.0	185	169	91.4	182	162	89.0	171	94.0	157	86.3	179	164	91.6	150	83.8	78	43.6	180	139	77.2
19	174	172	98.9	172	98.9	211	203	96.2	145	136	93.8	138	95.2	131	90.3	189	175	92.6	169	89.4	88	46.6	127	100	78.7
5	155	154	99.4	154	99.4	133	122	91.7	115	103	89.6	110	95.7	100	87.0	99	92	92.9	85	85.9	46	46.5	118	77	65.3
18	127	122	96.1	122	96.1	107	100	93.5	107	87	81.3	97	90.7	85	79.4	120	113	94.2	105	87.5	59	49.2	91	64	70.3
8	127	122	96.1	121	95.3	129	113	87.6	89	61	68.5	78	87.6	55	61.8	107	101	94.4	97	90.7	50	46.7	94	78	83.0
4	116	109	94.0	109	94.0	87	77	88.5	108	89	82.4	104	96.3	84	77.8	91	76	83.5	69	75.8	41	45.1	77	61	79.2
2	105	102	97.1	102	97.1	97	92	94.8	108	96	88.9	104	96.3	95	88.0	99	93	93.9	91	91.9	44	44.4	107	81	75.7
6	104	103	99.0	102	98.1	84	80	95.2	100	67	67.0	90	90.0	66	66.0	85	75	88.2	69	81.2	33	38.8	76	54	71.1
7	95	94	98.9	92	96.8	122	111	91.0	104	92	88.5	99	95.2	89	85.6	160	145	90.6	131	81.9	86	53.8	145	128	88.3
14	77	75	97.4	75	97.4	87	82	94.3	81	77	95.1	75	92.6	73	90.1	71	63	88.7	58	81.7	40	56.3	57	43	75.4
16	68	65	95.6	65	95.6	59	54	91.5	67	61	91.0	62	92.5	59	88.1	70	63	90.0	57	81.4	30	42.9	62	46	74.2
10	67	66	98.5	66	98.5	46	42	91.3	38	37	97.4	38	100.0	37	97.4	37	34	91.9	31	83.8	18	48.6	65	52	80.0
13	66	64	97.0	64	97.0	50	45	90.0	62	50	80.6	58	93.5	46	74.2	73	70	95.9	67	91.8	34	46.6	61	44	72.1
1	64	60	93.8	60	93.8	55	51	92.7	41	36	87.8	40	97.6	35	85.4	60	55	91.7	54	90.0	21	35.0	42	36	85.7
11	63	60	95.2	59	93.7	56	48	85.7	59	43	72.9	54	91.5	43	72.9	57	53	93.0	49	86.0	22	38.6	55	40	72.7
15	48	43	89.6	43	89.6	50	39	78.0	46	35	76.1	42	91.3	32	69.6	40	38	95.0	35	87.5	18	45.0	44	36	81.8
9	37	37	100.0	37	100.0	34	30	88.2	32	30	93.8	30	93.8	30	93.8	32	31	96.9	28	87.5	12	37.5	33	27	81.8
17	34	34	100.0	34	100.0	26	24	92.3	26	20	76.9	23	88.5	19	73.1	16	15	93.8	15	93.8	5	31.3	20	18	90.0
Unknown	27	24	88.9	24	88.9	21	15	71.4	78	66	84.6	72	92.3	65	83.3	64	54	84.4	48	75.0	20	31.3	73	38	52.1
3	11	11	100.0	11	100.0	12	9	75.0	13	10	76.9	11	84.6	10	76.9	14	14	100.0	11	78.6	5	35.7	24	19	79.2

*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 /MMR2

Measles, Mumps, Rubella (one dose/ two doses)

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

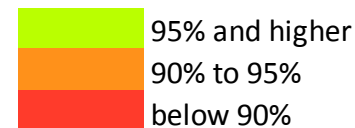


Figure 5.1.1 Uptake of 5 in 1 vaccine in children reaching their first birthday during 01/01/2011 to 31/12/2011.

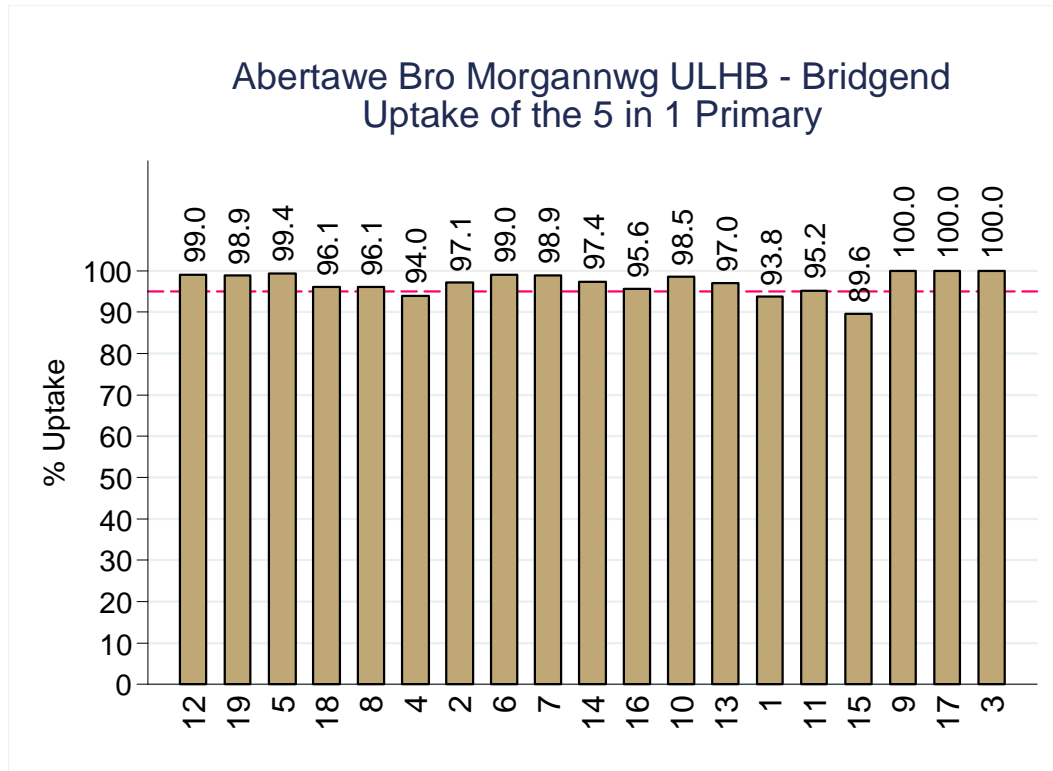


Figure 5.1.2 Uptake of MenC vaccine in children reaching their first birthday during 01/01/2011 to 31/12/2011.

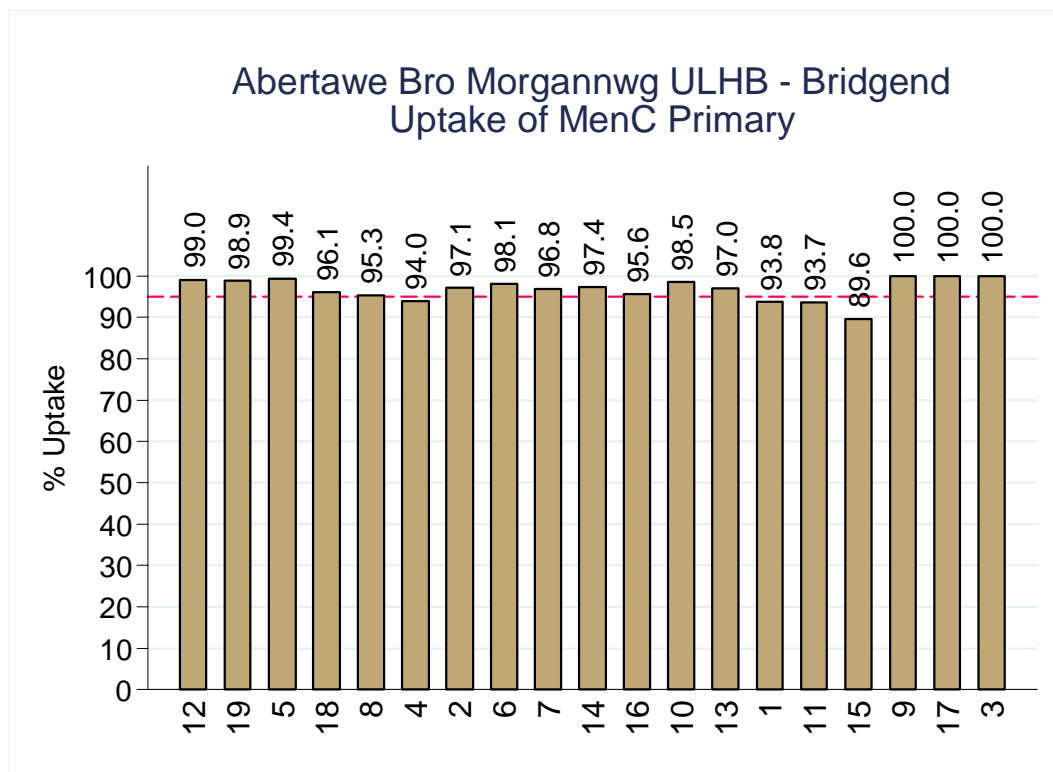


Figure 5.1.3 Uptake of MMR vaccine (one dose) in children reaching their second birthday during 01/01/2011 to 31/12/2011.

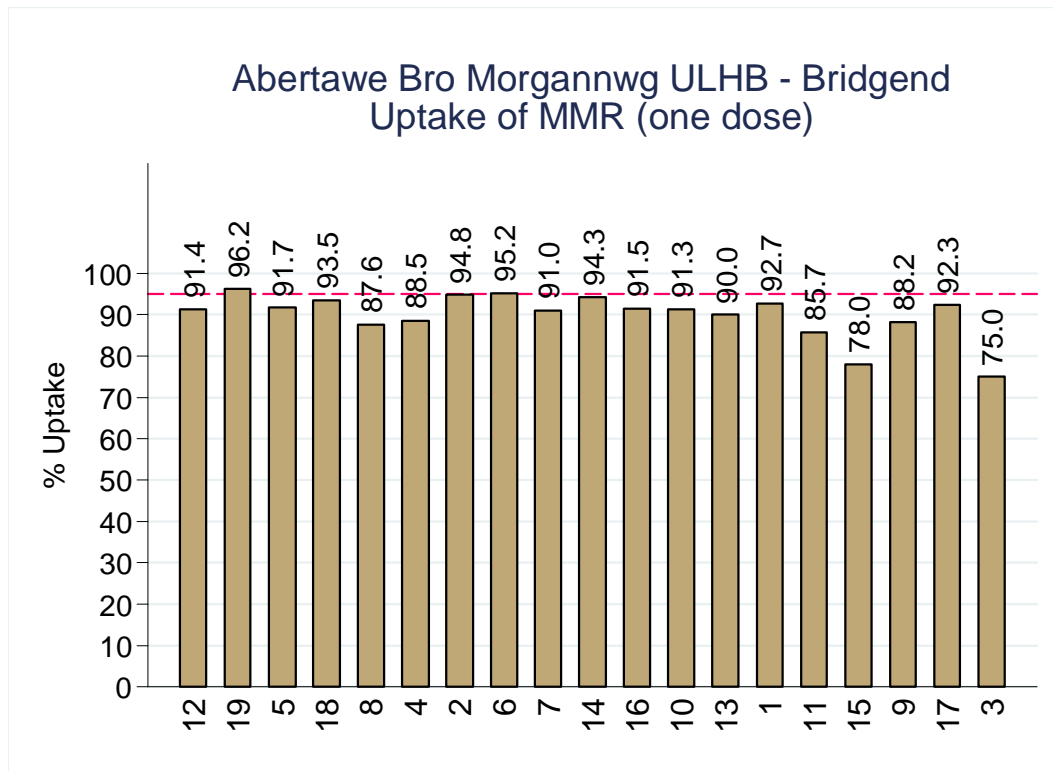


Figure 5.1.4 Uptake of 4 in 1 vaccine in children reaching their fifth birthday during 01/01/2011 to 31/12/2011.

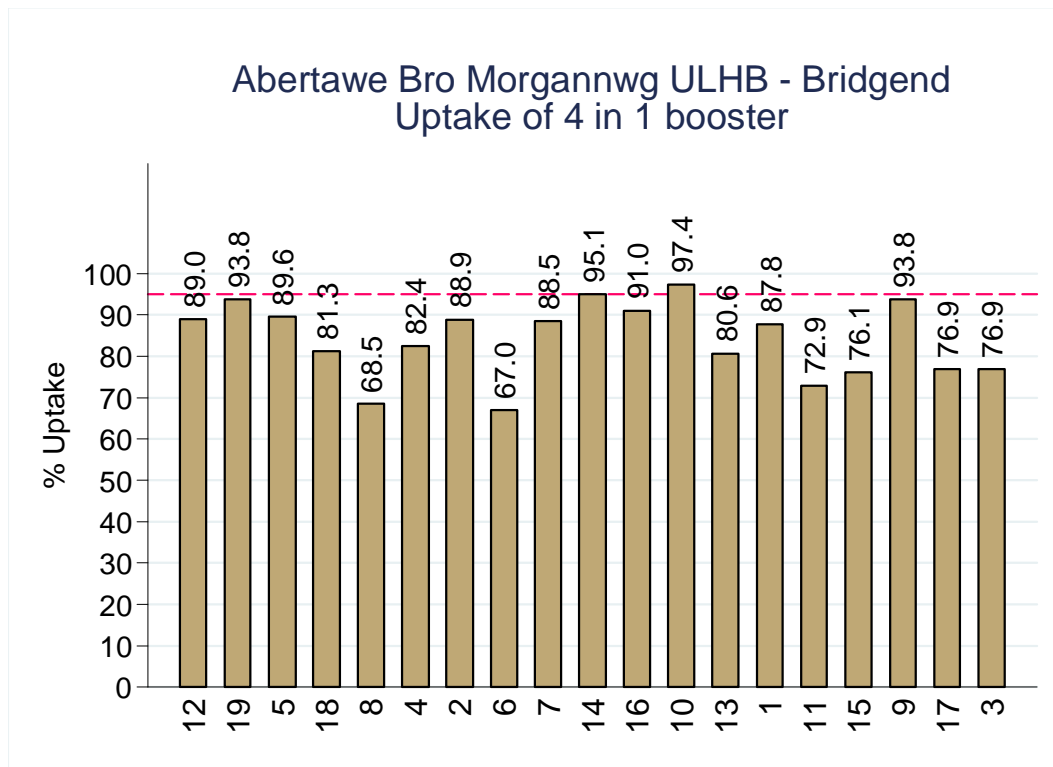


Figure 5.1.5 Uptake of MMR vaccine (two doses) in children reaching their fifth birthday during 01/01/2011 to 31/12/2011.

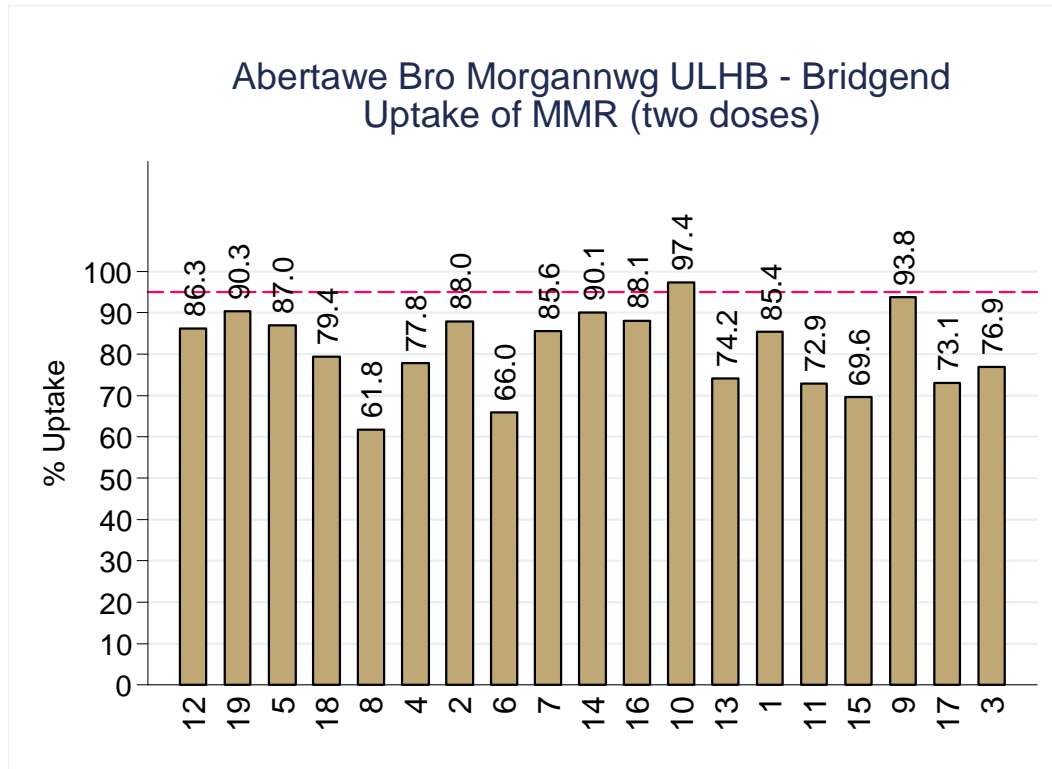


Figure 5.1.6 Uptake of MMR vaccine (one dose) in children reaching their 15th birthday during 01/01/2011 to 31/12/2011.

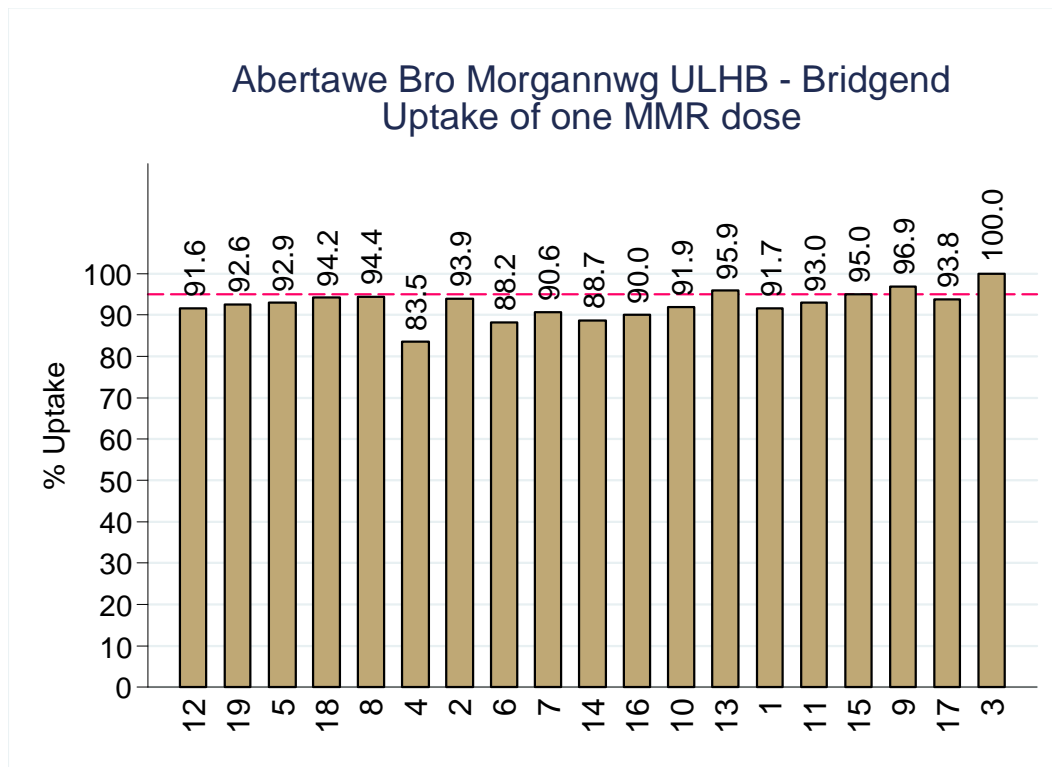


Figure 5.1.7 Uptake of MMR vaccine (two doses) in children reaching their 15th birthday during 01/01/2011 to 31/12/2011.

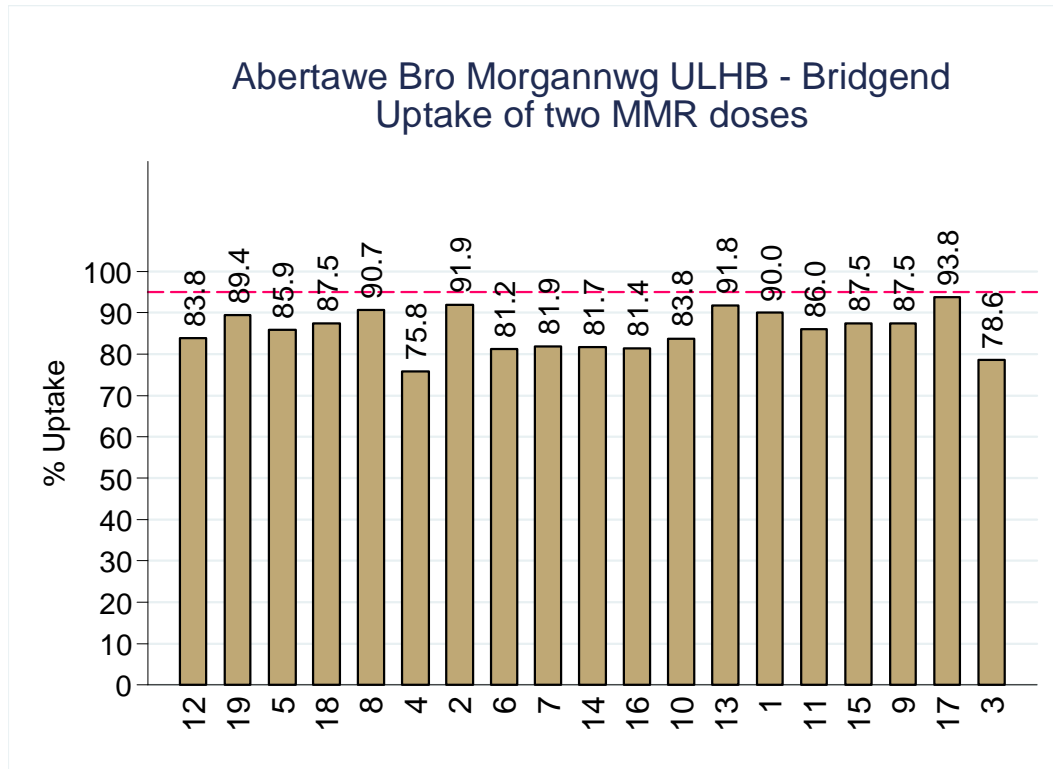
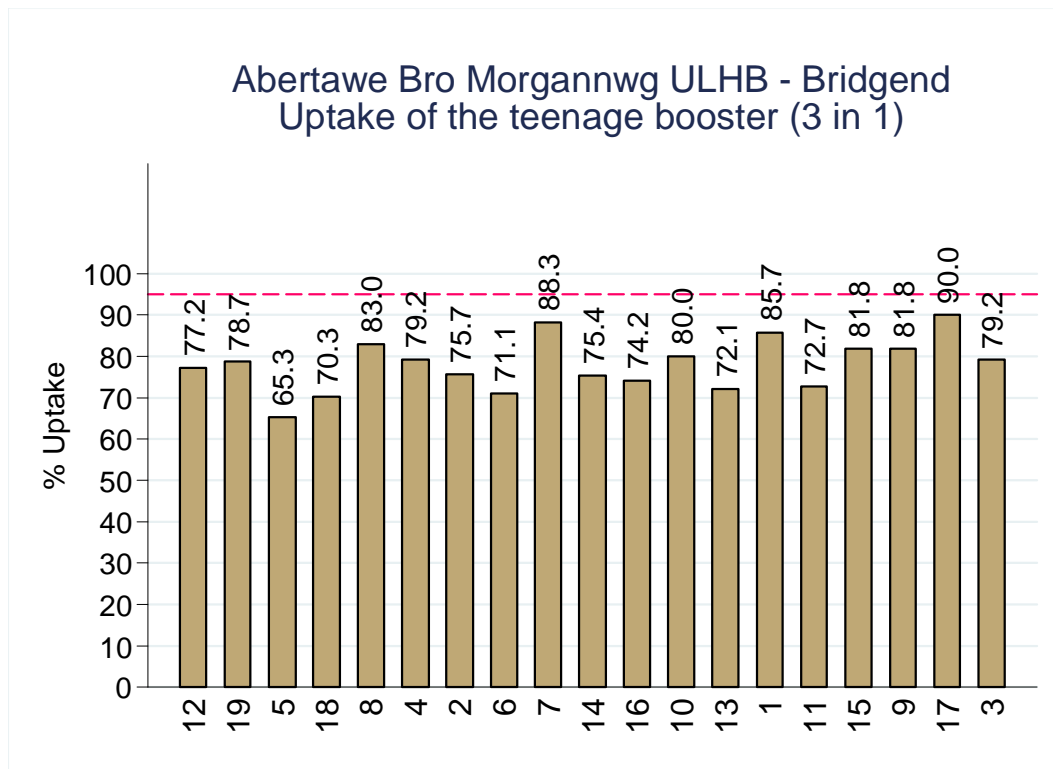


Figure 5.1.8 Uptake of 3 in 1 teenage booster in children reaching their 16th birthday during 01/01/2011 to 31/12/2011.



5.2 Neath Port Talbot LA

Table 5.2 Summary of coverage for children reaching the relevant birthday between 01/01/2011 and 31/12/2011*

Practice 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) (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	142	142	100.0	142	100.0	132	123	93.2	133	128	96.2	130	97.7	126	94.7	124	117	94.4	105	84.7	71	57.3	128	105	82.0
7	109	108	99.1	108	99.1	93	79	84.9	113	97	85.8	105	92.9	90	79.6	123	115	93.5	111	90.2	67	54.5	99	83	83.8
18	104	99	95.2	98	94.2	87	81	93.1	94	85	90.4	93	98.9	80	85.1	98	90	91.8	88	89.8	54	55.1	126	99	78.6
2	98	96	98.0	95	96.9	95	85	89.5	92	86	93.5	85	92.4	79	85.9	113	97	85.8	80	70.8	47	41.6	121	103	85.1
1	92	91	98.9	91	98.9	113	104	92.0	112	104	92.9	108	96.4	98	87.5	111	106	95.5	97	87.4	58	52.3	120	93	77.5
11	91	86	94.5	86	94.5	103	87	84.5	92	76	82.6	84	91.3	76	82.6	98	87	88.8	84	85.7	39	39.8	106	81	76.4
17	90	88	97.8	88	97.8	79	74	93.7	71	62	87.3	64	90.1	56	78.9	87	78	89.7	68	78.2	39	44.8	84	69	82.1
10	87	86	98.9	86	98.9	100	84	84.0	96	84	87.5	86	89.6	77	80.2	103	98	95.1	87	84.5	50	48.5	95	66	69.5
16	83	79	95.2	77	92.8	88	72	81.8	75	65	86.7	71	94.7	64	85.3	78	72	92.3	61	78.2	45	57.7	78	58	74.4
21	82	80	97.6	80	97.6	79	70	88.6	67	63	94.0	65	97.0	60	89.6	82	71	86.6	67	81.7	35	42.7	69	50	72.5
13	79	78	98.7	78	98.7	77	68	88.3	91	74	81.3	79	86.8	65	71.4	99	91	91.9	82	82.8	48	48.5	97	84	86.6
15	74	73	98.6	73	98.6	59	56	94.9	45	41	91.1	43	95.6	40	88.9	74	67	90.5	64	86.5	39	52.7	65	50	76.9
23	58	57	98.3	57	98.3	54	53	98.1	62	61	98.4	59	95.2	58	93.5	65	55	84.6	52	80.0	36	55.4	55	48	87.3
5	51	50	98.0	50	98.0	50	48	96.0	60	58	96.7	59	98.3	54	90.0	52	47	90.4	44	84.6	21	40.4	49	43	87.8
4	47	46	97.9	46	97.9	39	36	92.3	43	35	81.4	42	97.7	31	72.1	57	53	93.0	48	84.2	28	49.1	49	37	75.5
20	39	38	97.4	38	97.4	42	42	100.0	42	40	95.2	40	95.2	40	95.2	38	34	89.5	32	84.2	18	47.4	42	30	71.4
14	37	32	86.5	32	86.5	36	30	83.3	29	24	82.8	27	93.1	24	82.8	32	29	90.6	27	84.4	17	53.1	34	24	70.6
6	32	31	96.9	31	96.9	27	27	100.0	32	23	71.9	29	90.6	23	71.9	35	32	91.4	29	82.9	18	51.4	19	17	89.5
22	30	30	100.0	30	100.0	34	31	91.2	31	30	96.8	31	100.0	29	93.5	42	42	100.0	40	95.2	18	42.9	36	28	77.8
8	28	28	100.0	28	100.0	23	23	100.0	29	29	100.0	29	100.0	29	100.0	19	18	94.7	16	84.2	5	26.3	24	19	79.2
9	26	24	92.3	24	92.3	25	20	80.0	8	8	100.0	8	100.0	7	87.5	24	19	79.2	13	54.2	12	50.0	22	15	68.2
19	16	16	100.0	16	100.0	29	29	100.0	24	24	100.0	24	100.0	23	95.8	28	24	85.7	22	78.6	11	39.3	22	15	68.2
Unknown	6	6	100.0	6	100.0	7	5	71.4	16	11	68.8	15	93.8	11	68.8	17	10	58.8	9	52.9	3	17.6	24	6	25.0
3	5	5	100.0	5	100.0	10	9	90.0	4	3	75.0	3	75.0	3	75.0	20	17	85.0	14	70.0	6	30.0	16	14	87.5

*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 /MMR2 Measles, Mumps, Rubella (one dose/ two doses)
- 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

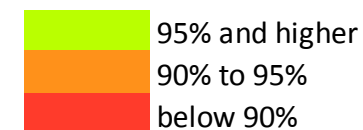


Figure 5.2.1 Uptake of 5 in 1 vaccine in children reaching their first birthday during 01/01/2011 to 31/12/2011.

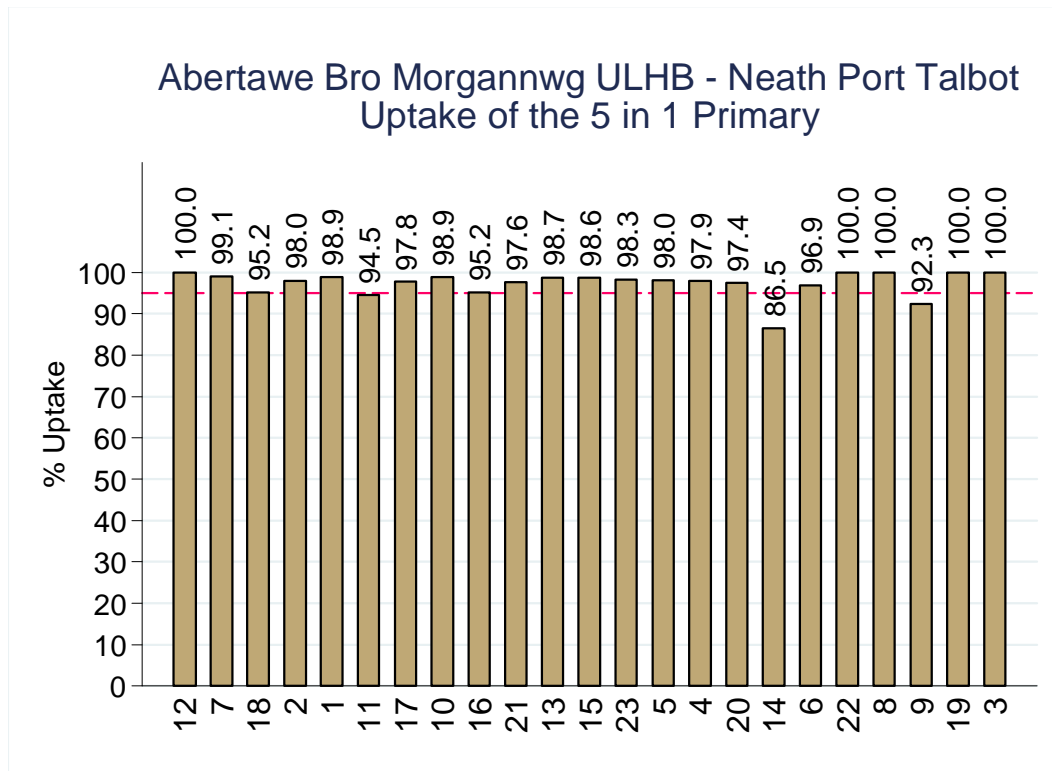


Figure 5.2.2 Uptake of MenC vaccine in children reaching their first birthday during 01/01/2011 to 31/12/2011.

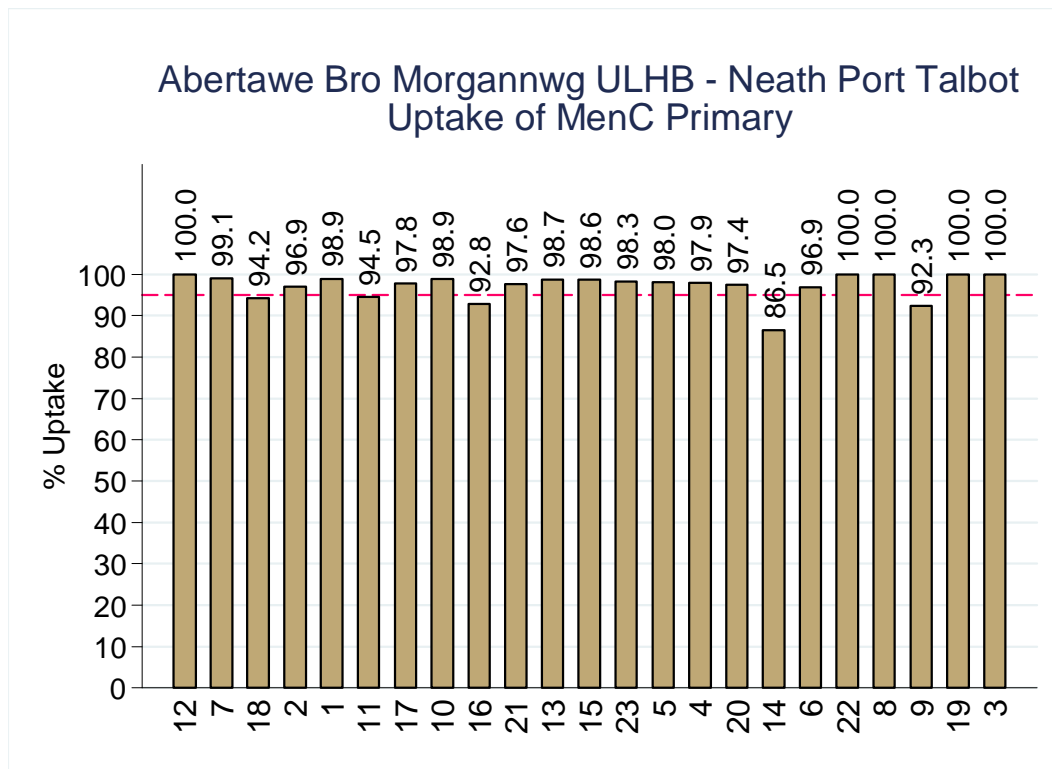


Figure 5.2.3 Uptake of MMR vaccine (one dose) in children reaching their second birthday during 01/01/2011 to 31/12/2011.

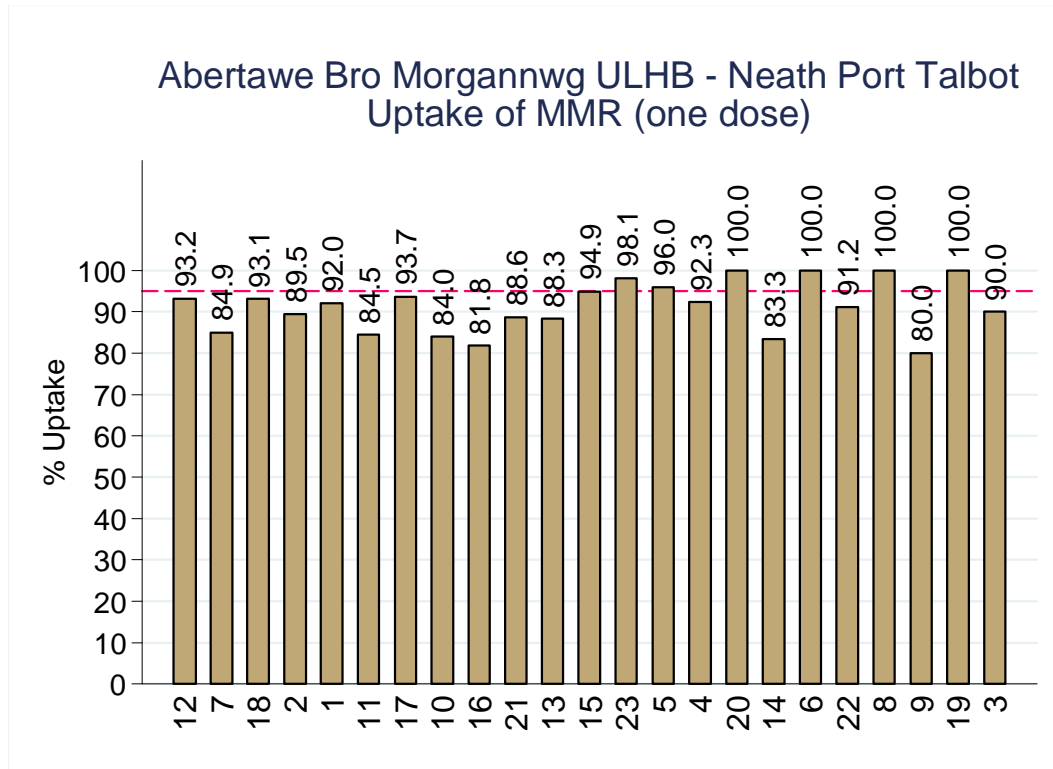


Figure 5.2.4 Uptake of 4 in 1 vaccine in children reaching their fifth birthday during 01/01/2011 to 31/12/2011.

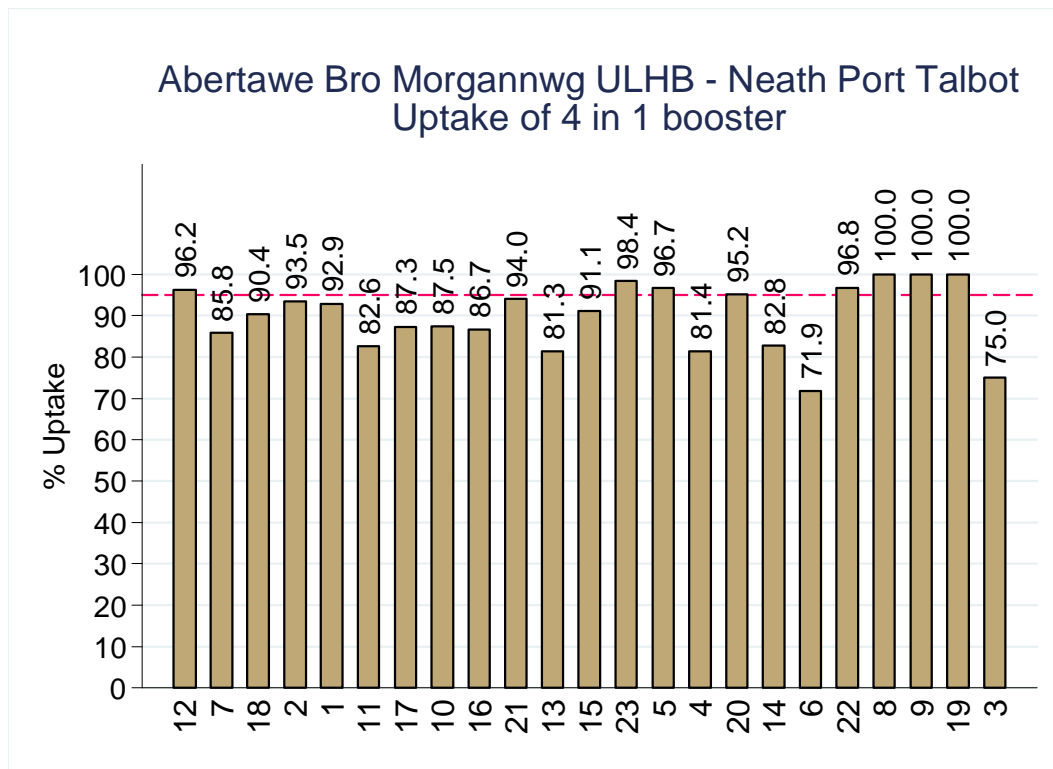


Figure 5.2.5 Uptake of MMR vaccine (two doses) in children reaching their fifth birthday during 01/01/2011 to 31/12/2011.

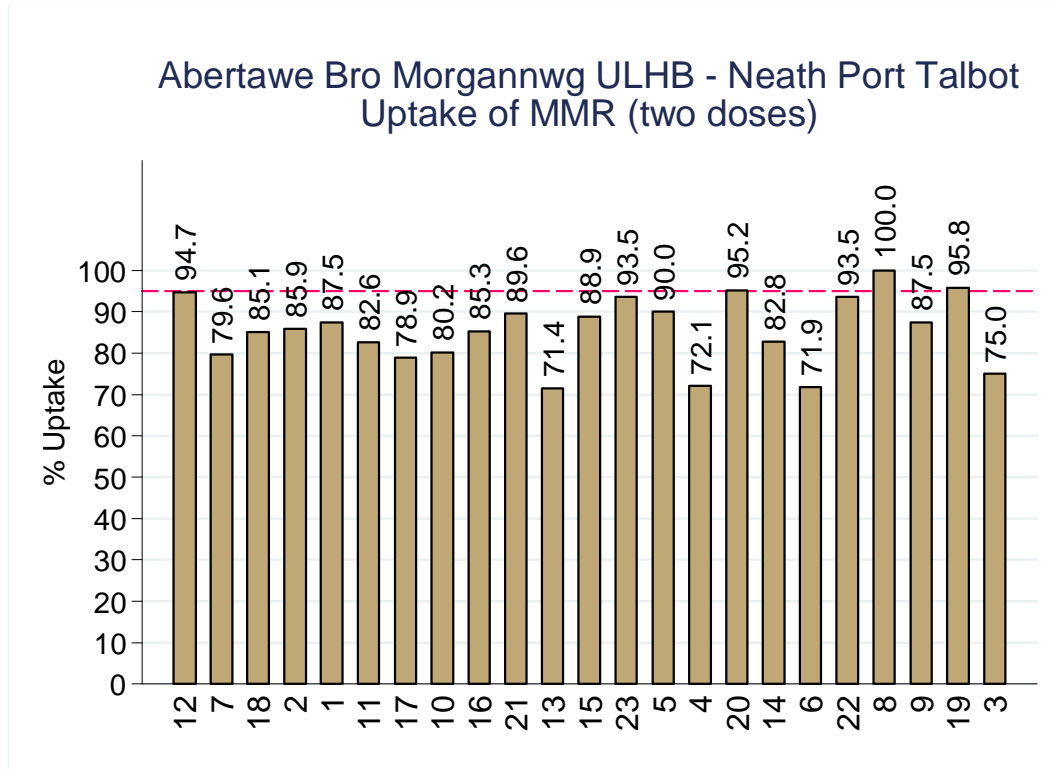


Figure 5.2.6 Uptake of MMR vaccine (one dose) in children reaching their 15th birthday during 01/01/2011 to 31/12/2011.

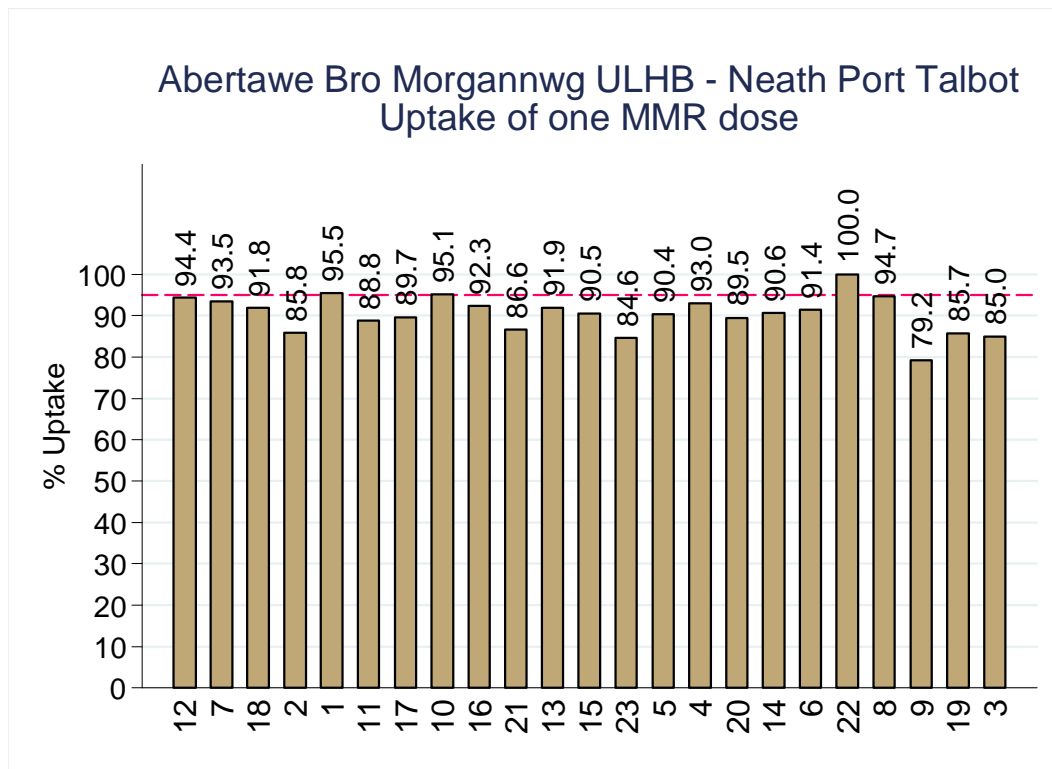


Figure 5.2.7 Uptake of MMR vaccine (two doses) in children reaching their 15th birthday during 01/01/2011 to 31/12/2011.

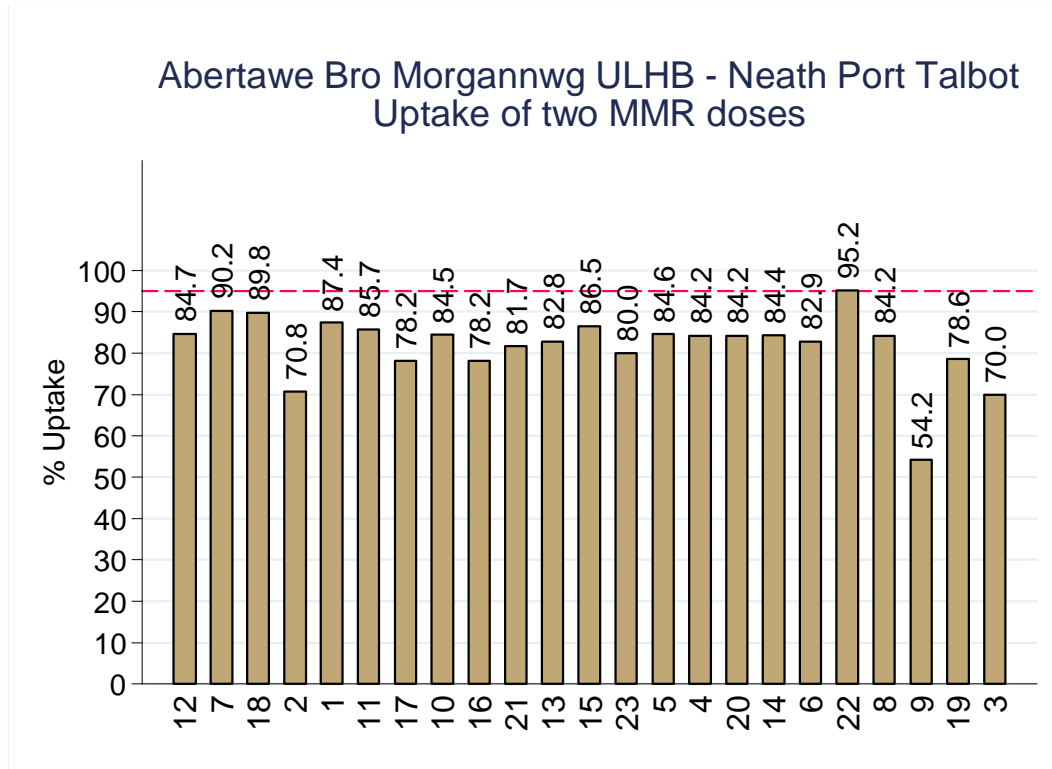
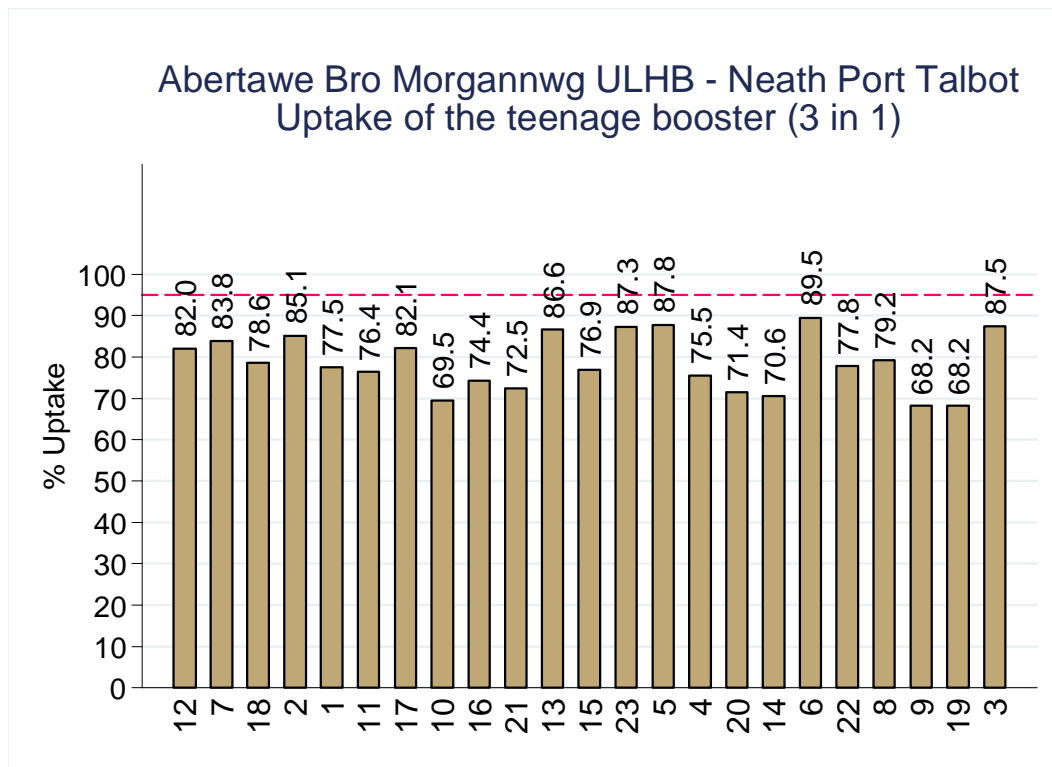


Figure 5.2.8 Uptake of 3 in 1 teenage booster in children reaching their 16th birthday during 01/01/2011 to 31/12/2011.



5.3 Swansea LA

Table 5.3 Summary of coverage for children reaching the relevant birthday between 01/01/2011 and 31/12/2011*

Practice 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) (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	203	199	98.0	198	97.5	169	154	91.1	177	158	89.3	156	88.1	149	84.2	229	198	86.5	170	74.2	119	52.0	225	183	81.3
25	159	157	98.7	157	98.7	131	124	94.7	140	128	91.4	135	96.4	124	88.6	129	118	91.5	102	79.1	62	48.1	119	106	89.1
32	133	122	91.7	124	93.2	113	103	91.2	84	77	91.7	80	95.2	74	88.1	88	71	80.7	63	71.6	42	47.7	90	71	78.9
3	127	124	97.6	124	97.6	116	111	95.7	115	110	95.7	112	97.4	108	93.9	168	157	93.5	146	86.9	88	52.4	159	134	84.3
30	126	123	97.6	122	96.8	127	119	93.7	137	125	91.2	134	97.8	121	88.3	113	106	93.8	93	82.3	59	52.2	126	103	81.7
22	114	112	98.2	112	98.2	89	84	94.4	95	79	83.2	86	90.5	75	78.9	75	67	89.3	62	82.7	35	46.7	86	71	82.6
28	109	108	99.1	107	98.2	70	66	94.3	69	57	82.6	66	95.7	58	84.1	77	73	94.8	64	83.1	40	51.9	70	56	80.0
20	105	103	98.1	102	97.1	88	79	89.8	82	78	95.1	80	97.6	76	92.7	91	81	89.0	73	80.2	42	46.2	99	76	76.8
10	103	98	95.1	98	95.1	93	86	92.5	83	73	88.0	79	95.2	73	88.0	66	58	87.9	48	72.7	25	37.9	72	58	80.6
29	103	102	99.0	102	99.0	110	101	91.8	81	76	93.8	75	92.6	72	88.9	96	89	92.7	80	83.3	51	53.1	73	54	74.0
23	100	100	100.0	100	100.0	96	94	97.9	105	100	95.2	100	95.2	97	92.4	109	101	92.7	97	89.0	55	50.5	97	85	87.6
13	98	92	93.9	92	93.9	70	63	90.0	86	77	89.5	84	97.7	77	89.5	87	74	85.1	70	80.5	46	52.9	70	52	74.3
24	96	89	92.7	88	91.7	100	84	84.0	90	76	84.4	79	87.8	72	80.0	79	69	87.3	56	70.9	34	43.0	79	66	83.5
9	94	90	95.7	90	95.7	78	70	89.7	83	78	94.0	83	100.0	76	91.6	91	78	85.7	64	70.3	37	40.7	63	43	68.3
14	93	91	97.8	91	97.8	100	96	96.0	81	69	85.2	78	96.3	70	86.4	87	78	89.7	73	83.9	37	42.5	72	56	77.8
12	90	90	100.0	90	100.0	95	86	90.5	101	97	96.0	93	92.1	88	87.1	100	94	94.0	87	87.0	59	59.0	121	100	82.6
8	90	86	95.6	85	94.4	86	80	93.0	90	83	92.2	87	96.7	78	86.7	97	84	86.6	71	73.2	46	47.4	74	58	78.4
1	90	86	95.6	84	93.3	70	56	80.0	57	53	93.0	52	91.2	49	86.0	58	53	91.4	46	79.3	22	37.9	55	47	85.5

Table 5.3 continued on next page

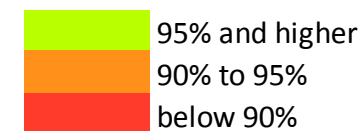


Table 5.3 - continued

Practice 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) (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) (%)	
5	75	75	100.0	75	100.0	65	60	92.3	69	59	85.5	63	91.3	56	81.2	47	40	85.1	40	85.1	28	59.6	62	51	82.3
15	73	69	94.5	70	95.9	82	73	89.0	85	67	78.8	78	91.8	69	81.2	97	85	87.6	71	73.2	41	42.3	72	54	75.0
27	64	60	93.8	59	92.2	60	52	86.7	57	42	73.7	50	87.7	43	75.4	59	52	88.1	45	76.3	27	45.8	58	45	77.6
21	59	58	98.3	58	98.3	56	51	91.1	52	51	98.1	47	90.4	47	90.4	51	48	94.1	37	72.5	29	56.9	44	34	77.3
19	57	55	96.5	55	96.5	46	40	87.0	65	59	90.8	65	100.0	58	89.2	61	58	95.1	51	83.6	28	45.9	80	71	88.8
18	56	55	98.2	55	98.2	59	51	86.4	63	57	90.5	58	92.1	53	84.1	53	47	88.7	42	79.2	26	49.1	58	46	79.3
36	56	52	92.9	52	92.9	74	69	93.2	76	73	96.1	75	98.7	71	93.4	80	76	95.0	66	82.5	40	50.0	82	59	72.0
2	53	52	98.1	51	96.2	39	37	94.9	36	31	86.1	32	88.9	29	80.6	55	46	83.6	42	76.4	30	54.5	61	46	75.4
26	44	43	97.7	43	97.7	54	48	88.9	71	68	95.8	64	90.1	62	87.3	64	58	90.6	43	67.2	31	48.4	70	54	77.1
33	43	42	97.7	41	95.3	51	45	88.2	40	39	97.5	36	90.0	35	87.5	51	48	94.1	44	86.3	26	51.0	49	35	71.4
7	42	42	100.0	42	100.0	51	43	84.3	37	36	97.3	35	94.6	35	94.6	53	48	90.6	45	84.9	24	45.3	46	36	78.3
6	34	30	88.2	30	88.2	30	26	86.7	33	29	87.9	32	97.0	28	84.8	40	37	92.5	33	82.5	19	47.5	38	28	73.7
4	32	31	96.9	31	96.9	37	32	86.5	35	34	97.1	34	97.1	33	94.3	43	38	88.4	34	79.1	22	51.2	38	35	92.1
17	25	24	96.0	24	96.0	24	24	100.0	30	28	93.3	28	93.3	28	93.3	32	27	84.4	25	78.1	16	50.0	19	17	89.5
Unknown	19	15	78.9	15	78.9	17	14	82.4	34	20	58.8	27	79.4	18	52.9	32	17	53.1	12	37.5	6	18.8	40	17	42.5
16	18	17	94.4	17	94.4	13	13	100.0	12	11	91.7	12	100.0	10	83.3	25	24	96.0	16	64.0	10	40.0	18	16	88.9
35	14	13	92.9	13	92.9	13	13	100.0	12	11	91.7	12	100.0	10	83.3	16	14	87.5	7	43.8	8	50.0	15	10	66.7
34	0	0		0		0	0		0	0		0		0		0	0		0		0		2	1	50.0

*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 /MMR2

Measles, Mumps, Rubella (one dose/ two doses)

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

	95% and higher
	90% to 95%
	below 90%

Figure 5.3.1 Uptake of 5 in 1 vaccine in children reaching their first birthday during 01/01/2011 to 31/12/2011.

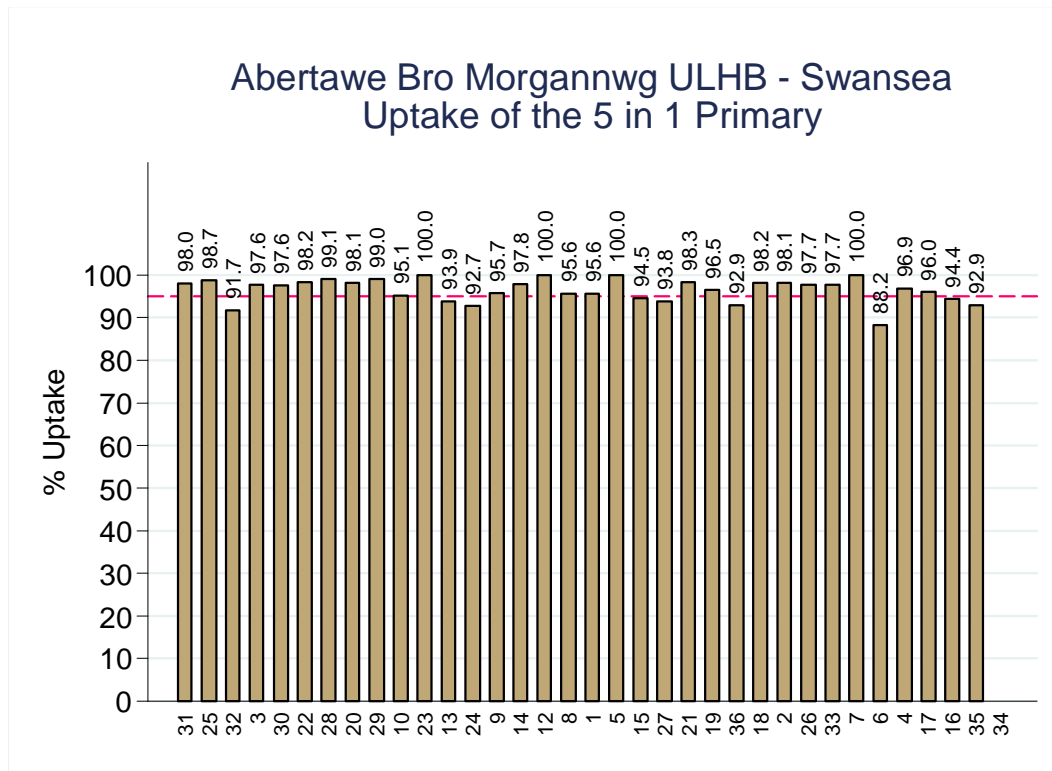


Figure 5.3.2 Uptake of MenC vaccine in children reaching their first birthday during 01/01/2011 to 31/12/2011.

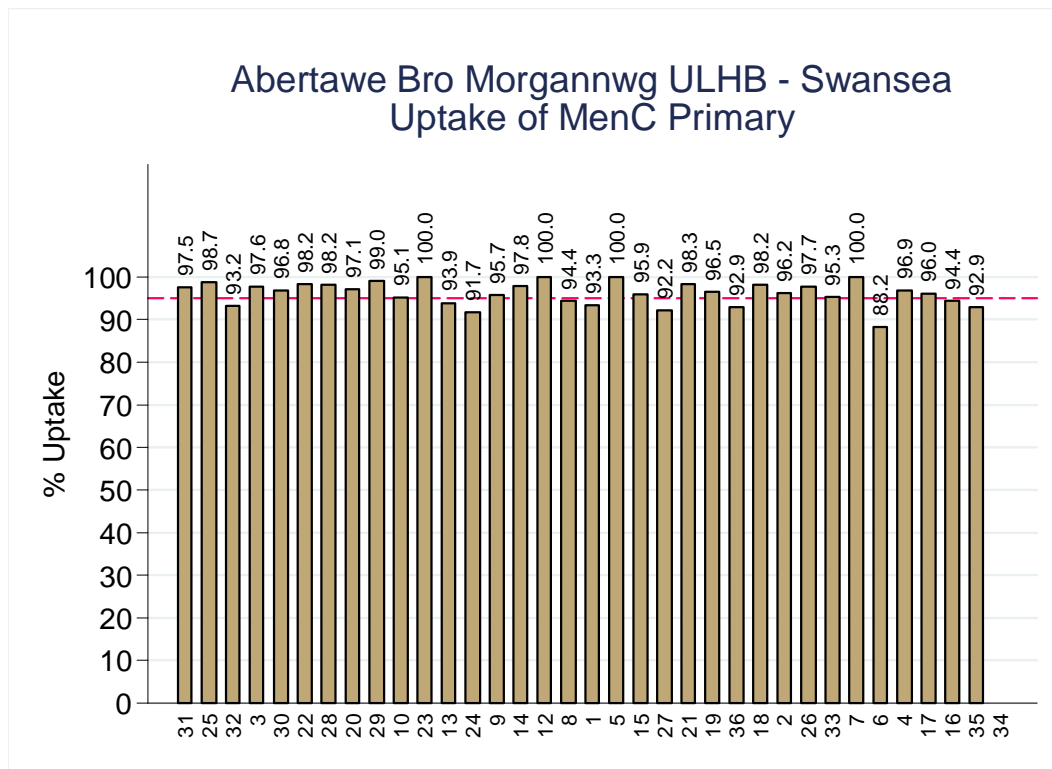


Figure 5.3.3 Uptake of MMR vaccine (one dose) in children reaching their second birthday during 01/01/2011 to 31/12/2011.

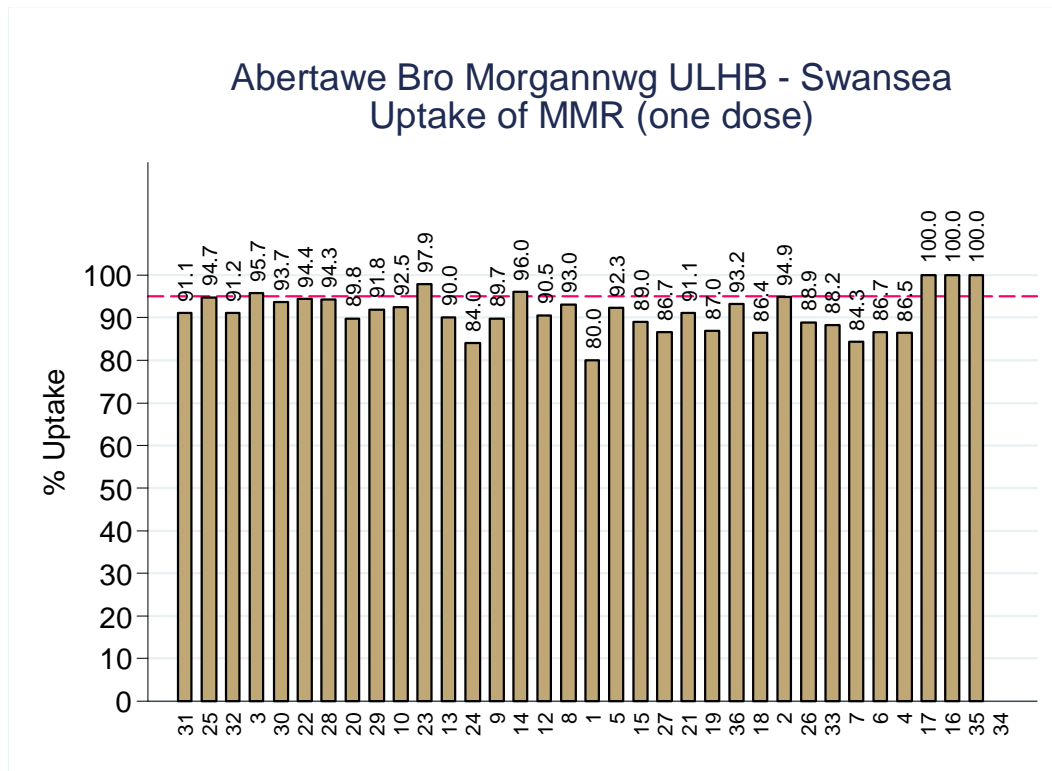


Figure 5.3.4 Uptake of 4 in 1 vaccine in children reaching their fifth birthday during 01/01/2011 to 31/12/2011.

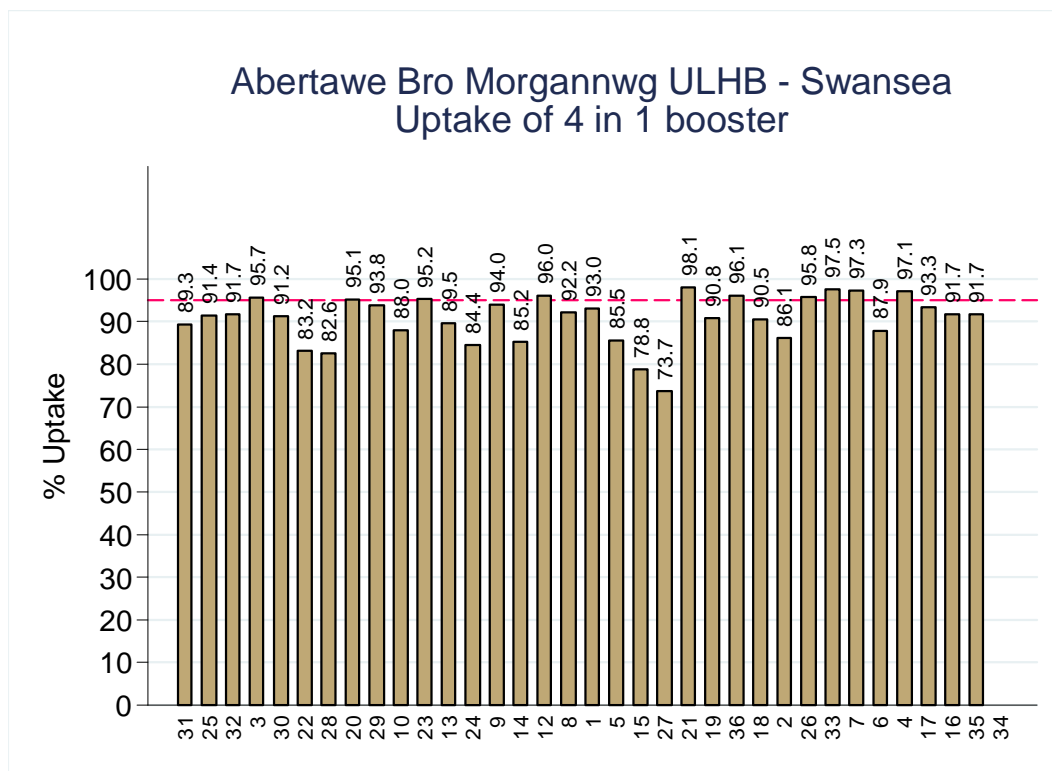


Figure 5.3.5 Uptake of MMR vaccine (two doses) in children reaching their fifth birthday during 01/01/2011 to 31/12/2011.

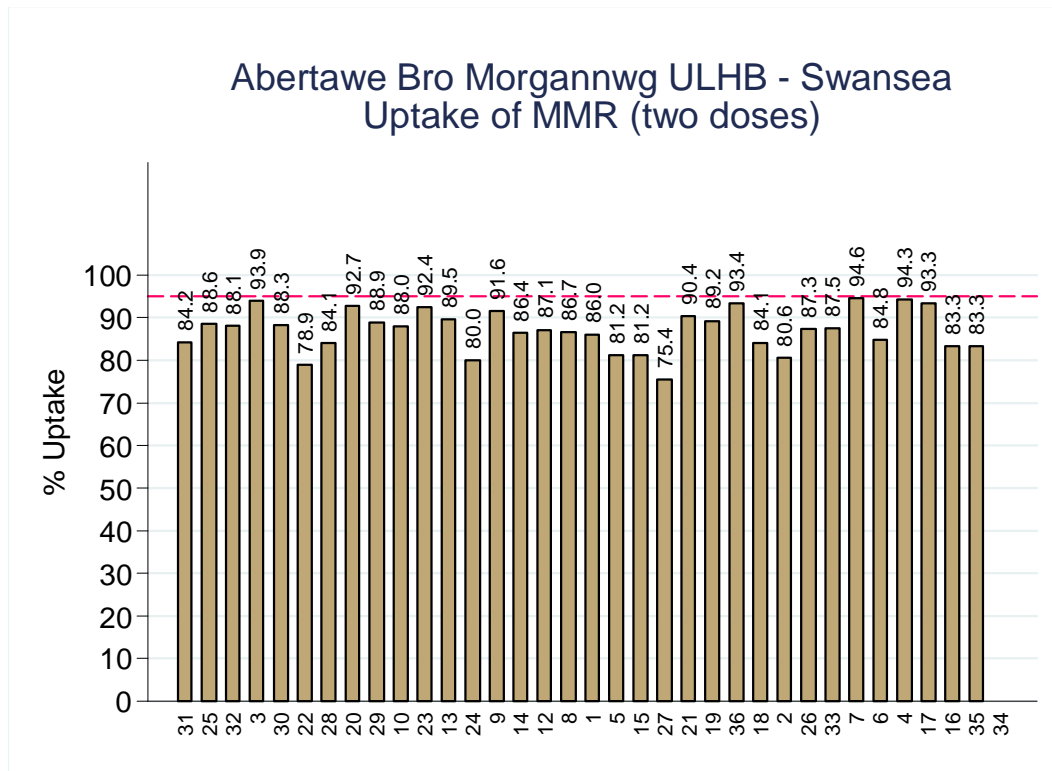


Figure 5.3.6 Uptake of MMR vaccine (one dose) in children reaching their 15th birthday during 01/01/2011 to 31/12/2011.

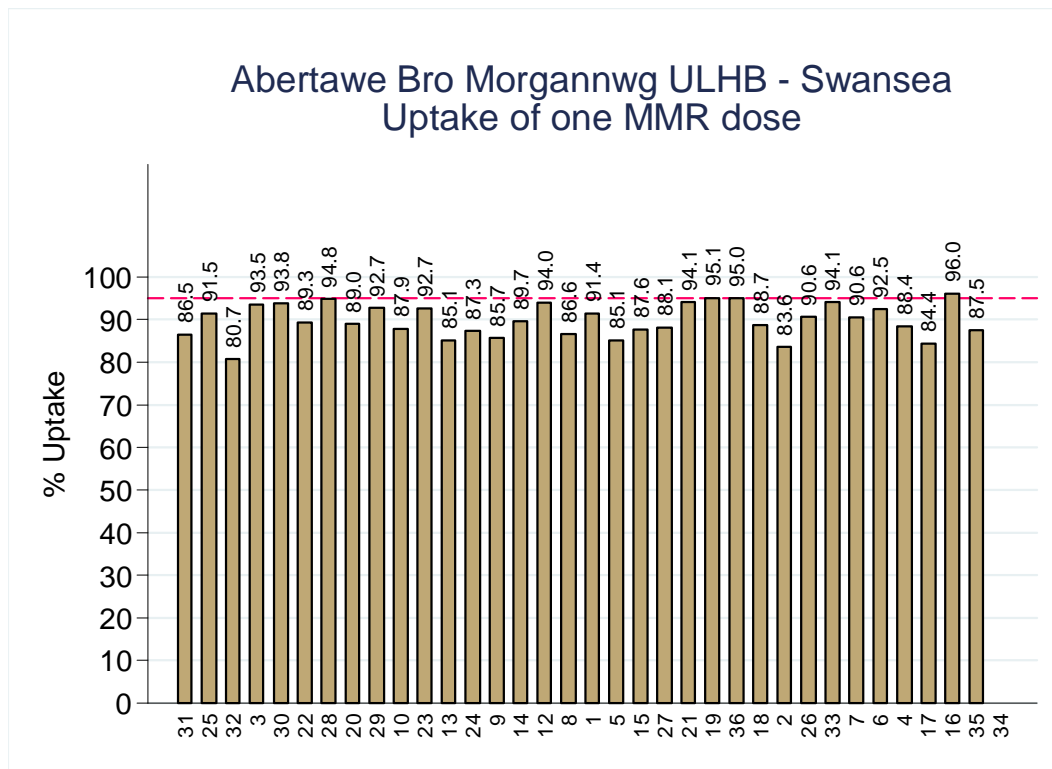


Figure 5.3.7 Uptake of MMR vaccine (two doses) in children reaching their 15th birthday during 01/01/2011 to 31/12/2011.

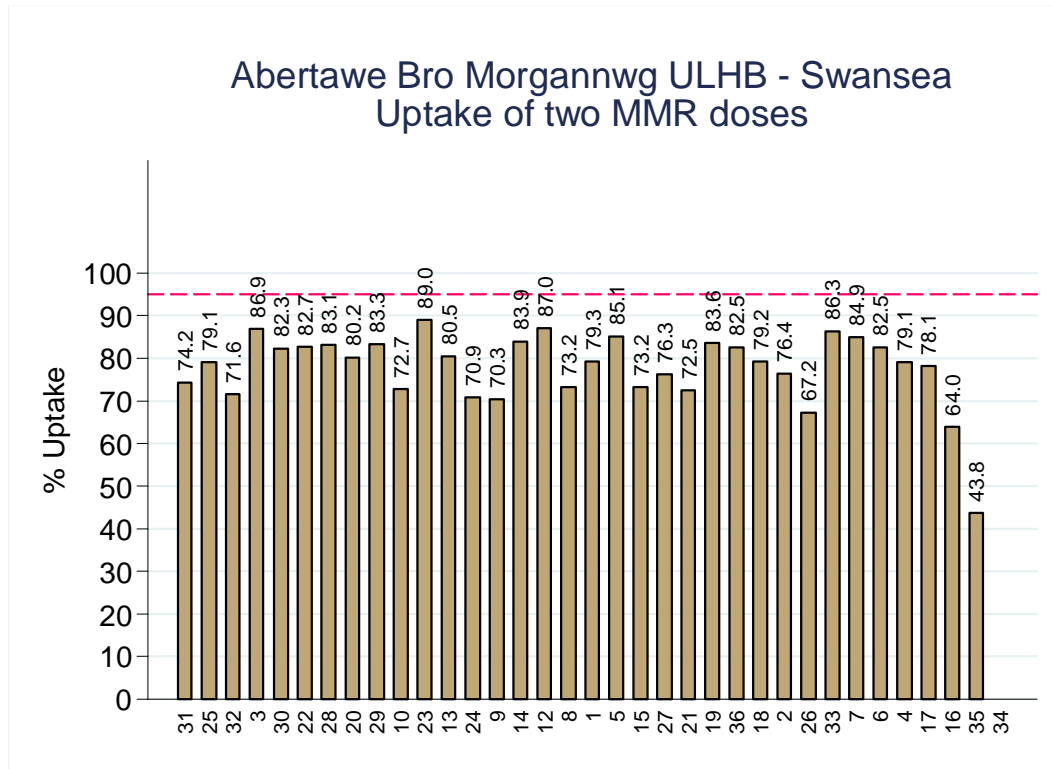


Figure 5.3.8 Uptake of 3 in 1 teenage booster in children reaching their 16th birthday during 01/01/2011 to 31/12/2011.

