



Seasonal Influenza vaccine uptake in Wales - 2012/13

Key Findings

- Uptake of influenza immunisation was 67.7% in those aged 65 years and over in Wales during 2012/13.
- Uptake was 49.7% in patients younger than 65 years in one or more clinical risk groups. Uptake among clinical risk groups was highest in patients with diabetes (66%) and lowest in patients with chronic liver disease (40%).
- Uptake in women who were coded in General Practices with Read codes associated with pregnancy was 43.6%. In a separate five day audit of women giving birth during March 2013, 61.6% had received influenza immunisation.
- This is the fourth year that data on uptake of influenza immunisation in Wales has been collected using the Audit+ General Practice software. This report is based on an overall response rate of 99.8% of General Practices in Wales.
- The proportion of patients aged 65 years and older who declined influenza immunisation in Wales in 2012/13 was 8.6%.
- Uptake of influenza immunisation in NHS staff, delivered through Health Board Occupational Health during 2012/13 was 35.5%.

1 Background

The aim of the Welsh Government seasonal influenza immunisation campaign policy is to minimise flu related morbidity, mortality, GP consultations and hospital admissions.

In Wales in 2012/13, free seasonal influenza immunisation was offered to all people aged 65 years and over, and people aged between six months and 65 years in clinical risk groups (chronic respiratory disease, chronic heart disease, chronic renal disease, chronic liver disease, chronic neurological conditions, diabetes mellitus, and immunosuppression), residents of long-stay care homes, and those who were a main carer for an elderly or disabled person whose welfare may be at risk if the carer fell ill. During the 2012/13 season, free seasonal influenza immunisation was also offered to all pregnant women and members of voluntary organisations providing planned emergency first aid. Influenza immunisation is also recommended for all NHS staff providing direct patient care, to protect the staff against influenza and to protect the patients whom they care for.

The 2012/13 Welsh Government target immunisation uptake rate was 75% for people aged 65 years and older, and those aged six month to 65 years in clinical risk groups [1]. For NHS staff with direct patient contact, the target uptake rate was 50%.

Public Health Wales monitor General Practice influenza immunisation uptake rates throughout the seasonal campaign and produce end of season influenza immunisation coverage statistics at national, Health Board and Local Authority level. Immunisation statistics contained in this report are not a measure of all those who have been immunised

during the course of the immunisation campaign, but represent a snapshot in coverage in those living and registered with Welsh General Practices at the end of the immunisation campaign.

2 Data collection

2.1. *Data from Primary Care.*

Data on influenza immunisation for the 2012/13 campaign were collected directly from General Practice using the Audit+ Data Quality System. Audit+ interrogates General Practice systems using specified Read-codes and automatically relays the relevant anonymous aggregate data to a central database. This provides the information required to monitor uptake of influenza immunisation in Wales, whilst minimising impact on General Practice. Data were collected on immunisations given and recorded on General Practice systems between September 2012 and April 2013 (this report contains data submitted by March 12th 2013), using a roll up method. Manual submissions of data were invited from 10 practices that were unable to submit data through Audit+, nine of which provided data. The submission rate for 2012/13 through Audit+ was 97.9%, this rose to 99.8% when manual submissions were taken in to account.

Using Audit+, data were collected on immunisations given to those aged 65 years and over (defined as aged 65 years on March 31st 2013) and those aged between 6 months and 65 years recorded as belonging to one or more clinical risk category (in total and by specific risk category). Uptake figures for pregnant women include women who have been pregnant at any point during September 2012 to January 2013; it does not represent coverage in women who are pregnant at a specific time point. Data were extracted using the Read codes defined in the PRIMIS+ Seasonal Influenza Vaccine Uptake Reporting Specification for 2012/13 (V4.2.0).

2.2. *NHS Staff immunisation data.*

Immunisation uptake data for NHS staff were provided on a monthly basis from October 2012 – March 2013 by HB Occupational Health departments. Denominator data were sourced from HBs using Knowledge Skills Framework (KSF) staff groupings. The approach to offering influenza immunisation to staff not normally considered to have direct patient contact varies between HBs. Data provided relates to immunisations given to all staff.

2.3. *Point of delivery survey data (coverage in pregnant women).*

From 18th March 2013 to 22nd March 2013, Public Health Wales Vaccine Preventable Disease Programme, supported by the Heads of Midwifery and midwife colleagues in all Welsh Health Boards, conducted a survey of how many women delivering in the major units in each Health Board had been offered influenza immunisation and how many had received it. During the five day period information was collected from 443 women giving birth across Wales.

This information provides a useful comparison to the uptake data submitted by General Practices, although the uptake measure from the point of delivery survey includes only women whose pregnancies go to full term and the General Practice uptake figures will also include in the denominator women whose pregnancies were not full term and ended before they could be offered vaccination.

3 Data submission rates

- 3.1. Data was submitted by 470 of the 471 (99.8%) General Practices in Wales (Tables 1, 2). This is an improvement of 0.8% compared to the 2011/12 season.
- 3.2. General Practice data submission rates varied by HB from 98.7% (Abertawe Bro Morgannwg University HB) to 100% in all other Health Boards.
- 3.3. All Health Boards in Wales provided NHS staff immunisation uptake data.
- 3.4. All Health Boards in Wales contributed to the point of delivery survey of pregnant women.

4 Uptake in patients aged 65 years and older and those aged six months to 64 years at clinical risk

- 4.1. Uptake in those aged 65 years and over was 67.7%, remaining unchanged since 2011/12 season. This is below the Welsh Government target of 75%. Uptake varied by HB from 65.4% (Abertawe Bro Morgannwg University HB and Hywel Dda Health Board) to 70% (Betsi Cadwaladr University HB, Figure 1 and Table 1) and ranged by Local Authority (LA) from 60.7% (Ceredigion) to 73.1% (Wrexham). No HB or LA area met the 75% target, however five LAs achieved an uptake higher than 70% (Table 2).
- 4.2. Uptake in those aged 6 months to 64 years and in an 'at risk' group was 49.7%. This is a decrease of 0.3% from the uptake in 2011/12 (50.0%). Uptake ranged by HB from 45.2% (Abertawe Bro Morgannwg University HB) to 52.1% (Betsi Cadwaladr University HB, Figure 1 and Table 1) and by LA from 43.7% (Bridgend) to 56.3% (Wrexham). According to the data submitted, the proportion of all patients aged under 65 years recorded in one or more clinical risk categories was 12.9% (an increase of 0.3% from the percentage recorded in 2011/12).
- 4.3. Chronic heart disease or a related condition was recorded in 2.1% of patients aged 6 months to 64 years, of whom 51.0% were immunised against influenza, uptake by HB ranged from 46.5% (Abertawe Bro Morgannwg University HB) to 53.9% (Betsi Cadwaladr UHB) (Table 3).
- 4.4. Chronic respiratory disease was recorded in 6.7% of patients aged 6 months to 64 years, of whom 48.7% were immunised against influenza, ranging by HB from 44.1% (Abertawe Bro Morgannwg University HB) to 51.6% (Betsi Cadwaladr University HB, Table 3).
- 4.5. Chronic kidney disease was recorded in 0.7% of patients aged 6 months to 64 years, of whom 53.5% were immunised against influenza, ranging by HB from 48.6% (Abertawe Bro Morgannwg University HB) to 56.1% (Cardiff and Vale UHB and Betsi Cadwaladr University HB, Table 3).
- 4.6. Diabetes was recorded in 3.0% of patients aged 6 months to 64 years, of whom 65.5% were immunised against influenza, ranging by HB from 61.2% (Abertawe Bro Morgannwg University HB) to 69.5% (Cardiff and Vale UHB, Table 3).

- 4.7. Immuno-suppression due to disease or treatment was recorded in 0.8 % of patients aged 6 months to 64 years, of whom 58.4% were immunised against influenza, ranging by HB from 52.1% (Abertawe Bro Morgannwg University HB) to 61.5% (Betsi Cadwaladr University HB, Table 3).
- 4.8. Chronic liver disease was recorded in 0.4% of patients aged 6 months to 64 years, of whom 39.8% were immunised against influenza, ranging by HB from 37.4% (Abertawe Bro Morgannwg University HB) to 43.8% (Cardiff and Vale University HB, Table 3).
- 4.9. Chronic neurological conditions (including Stroke and TIA) were recorded in 1.3% of patients aged 6 months to 64 years, of whom 46.3% were immunised against influenza, ranging by HB from 42.8% (Abertawe Bro Morgannwg University HB) to 49.5% (Betsi Cadwaladr University HB, Table 3).
- 4.10. The number of individuals recorded as being immunised against influenza in responding practices during the winter 2012/13, as at March 12th 2013, was 408,149 for those aged 65 years and over and 165,530 for those aged 6 months to 64 years and in 'at risk' groups, giving a total of 573,679. The true figure for the number of individuals receiving influenza immunisation is likely to be slightly higher than this, since data was received for 99.8% of practices in Wales. Assuming that non-responding practices are similar in size and nature to responding practices the total number of individuals in age or disease related risk groups immunised in Wales in the 2012/13 season can be estimated as 574,900. This is more than the estimated figure for 2011/12 (558,552).

5 Uptake in pregnant women

- 5.1. During September 2012 to January 31st 2013, 29,258 women were coded in General Practices with Read codes associated with pregnancy. Out of these women, 2,473 had an existing condition within the risk groups defined by the CMO letter, the remainder (26,785) did not have another condition which meant they would normally be at increased risk from influenza (Table 4).
- 5.2. Uptake of influenza vaccination in all pregnant women was 43.6% and ranged by HB from 32% (Abertawe Bro Morgannwg University HB) to 52.8% (Betsi Cadwaladr University HB). Uptake in pregnant women with another existing risk condition was 59.6% and ranged by HB from 50.1% (Abertawe Bro Morgannwg University HB) to 65.8% (Betsi Cadwaladr University HB). Uptake in pregnant women who did not have an existing condition which would normally place them at increased risk from influenza was 42.1% and ranged by HB from 30.2% (Abertawe Bro Morgannwg University HB) to 51.6% (Betsi Cadwaladr University HB).
- 5.3. Information collected during the five day point of delivery survey of 443 women giving birth during the period 18/03/2013 – 22/03/2013. Uptake of influenza immunisation in the 443 women surveyed was 61.6%, the survey also found that 79.2% of the women surveyed could recall being offered influenza immunisation.

6 Uptake in carers

- 6.1. There were 19,517 people aged 6 months to 64 years recorded as being carers, of whom 53.2% were immunised against influenza. These figures only include those who have identified themselves as a carer to their GP, and have been coded appropriately in the GP records; the true denominator for carers is likely to be higher. Uptake ranged by

HB from 49.4% (Abertawe Bro Morgannwg University HB) to 58% (Cwm Taf HB, Table 5).

7 Patients declining influenza vaccination in Primary Care

- 7.1. This year, for the first time, analysis has been carried out on those that decline immunisation in Wales (Table 6); 8.6% of those aged 65 years or older declined immunisation (LHB range from 6.2%- 12.9%) and 1.3% of those aged under 65 years (LHB range from 0.8%- 2.1%). These figures are based on a 97.9% practice report rate through Audit+, data was not available for the nine practices in Wales which submitted data manually.

8 Uptake in NHS Staff

- 8.1. Out of 80,394 NHS staff under the care of HB Occupational Health departments in Wales, 28,559 (35.5%) were immunised against influenza during 2012/13, an increase of 4.6% from the 2011/12 season. Uptake ranged by HB from 29.8% (Hywel Dda HB) to 37.6% (Aneurin Bevan HB, Table 7); and by staff group from 29.5% (Additional Clinical Services) to 52.9% (Allied Health Professionals).
- 8.2. Uptake in Medical/ Dental and Nursing/ Midwifery staff groups, the majority of whom might be expected to have direct patient contact, was 41.1% and 35.6% respectively (Table 8).

9 Comment

The 2012/13 influenza immunisation uptake rate in patients aged 65 years and older remained stable, compared to the 2011/12 uptake, but falls short of the 75% target. None of the seven Health Boards in Wales achieved an uptake of 75% in this age group of 75%, however five Local Authority areas were within 5% of the target (Figures 1 and 2, Tables 1 and 2). Uptake of influenza immunisation in those aged six months to 65 years, with one or more clinical risk conditions also remained stable, but short of 75%.

The General Practice measure of influenza immunisation uptake in pregnant women increased notably this season, from 32% to 44%. This is a measure of immunisation uptake in all women who, as at September 1st 2012 were coded with pregnancy associated Read codes, or who had these codes applied to their records by January 31st 2013. This means that this is an indicative measure of those who have been pregnant at any point during the immunisation campaign; pregnancies may have ended for a number of these women (in births or otherwise), before they might have been offered immunisation. For the first time, this year Public Health Wales have conducted a survey of the proportion of women giving birth during a defined period who received influenza immunisation during their pregnancy. The information provided by midwives during this survey indicated that, at point of delivery, coverage of influenza immunisation in pregnant women was higher than the General Practice measure indicated. The difference between uptake of influenza immunisation measured in these two ways, is likely to be due to a number of reasons which reflect the difficulties in collecting robust information from General Practices automatically using pre-defined Read codes for this group.

Another substantial improvement in uptake of influenza immunisation in 2012/13 was seen in NHS staff in Wales. Although the 50% target was not reached by any Health Board, most areas have seen a year on year increase in uptake for the past four years. The 50% target

was only achieved in one staff group, the Allied Health Professionals staff group, which includes Physiotherapists, Radiographers, Speech and Language Therapists and Occupational Therapists.

Information on the proportions of patients who declined influenza immunisation during the 2012/13 season is presented in this report for the first time. Although variable at Local Authority level, the overall proportion of patients who have declined influenza immunisation suggests that acceptability of the vaccine in patients aged 65 years and older is high.

References:

1. 2011-12 seasonal flu vaccination programme CMO Letter (CMO(2011)14). Cardiff: Welsh Assembly Government; 8 April 2011. Available from: <http://wales.gov.uk/topics/health/ocmo/publications/cmo/2011/seasonal/?lang=en>
2. Public Health Wales Weekly Influenza Surveillance Report – Week 17 2012. Cardiff: Public Health Wales; 02 May 2012. Available from: <http://www.wales.nhs.uk/sites3/page.cfm?orgid=457&pid=34338>

Table 1. Trends in uptake of influenza immunisation in Wales from 2010/11 to 2012/13

Health Board	Uptake in patients aged 65y and older (%)			Uptake in patients younger than 65y at risk (%)			Practices submitting data (%)		
	2010/11	2011/12	2012/13	2010/11	2011/12	2012/13	2010/11	2011/12	2012/13
Abertawe Bro Morgannwg UHB	64.8	65.3	65.4	45.6	45.1	45.2	98.7	98.7	98.7
Aneurin Bevan HB	66.5	69.4	68.1	50.5	52.6	50.2	95.7	97.8	100.0
Betsi Cadwaladr UHB	68.2	69.6	70.0	52	52.9	52.1	100.0	99.2	100.0
Cardiff and Vale UHB	65.8	69.0	69.3	47.1	50.6	51.5	100.0	100.0	100.0
Cwm Taf HB	63.4	65.4	65.9	47.7	49.7	51.0	100.0	100.0	100.0
Hywel Dda HB	64.2	66.1	65.4	45.7	48.1	48.0	100.0	98.2	100.0
Powys Teaching HB	63.2	66.5	67.7	48.5	47.6	49.3	100.0	100.0	100.0
Wales total	65.7	67.7	67.7	48.5	50.0	49.7	99.0	99.0	99.8

Figure 1. Uptake of influenza immunisation in General Practices during 2012/13, by Health Board, in: (a) patients aged 65 years and older and (b) patients aged 6 months to 64 years at clinical risk.

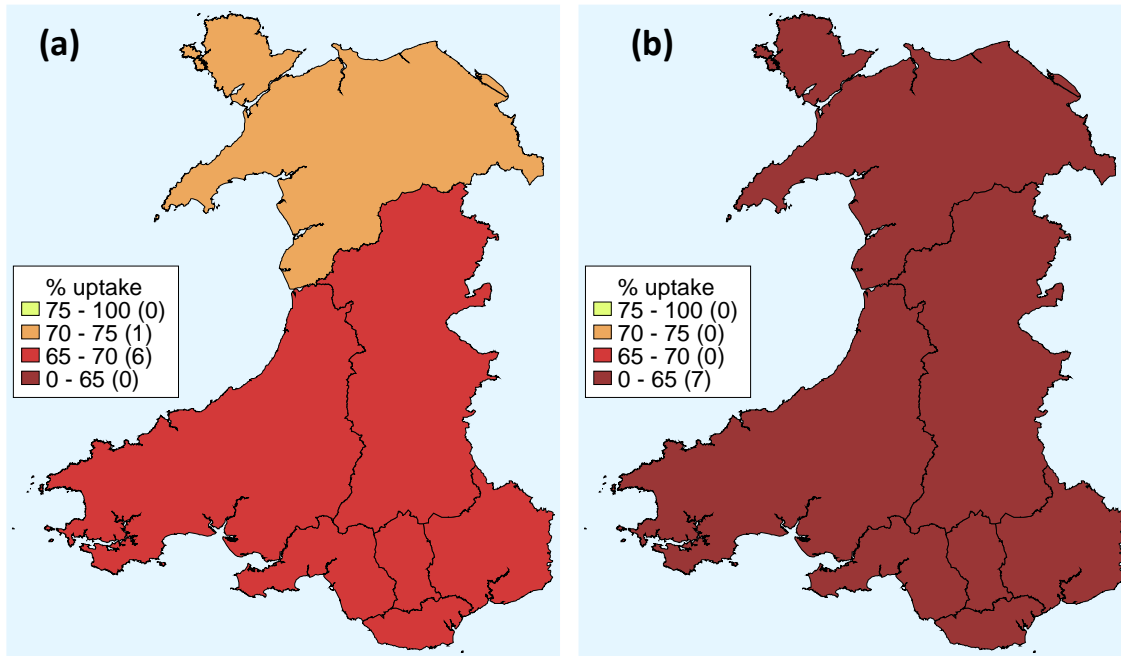


Figure 2. Uptake of influenza immunisation in General Practices during 2012/13, by Local Authority of practice location, in: (a) patients aged 65 years and older and (b) patients aged 6 months to 64 years at clinical risk.

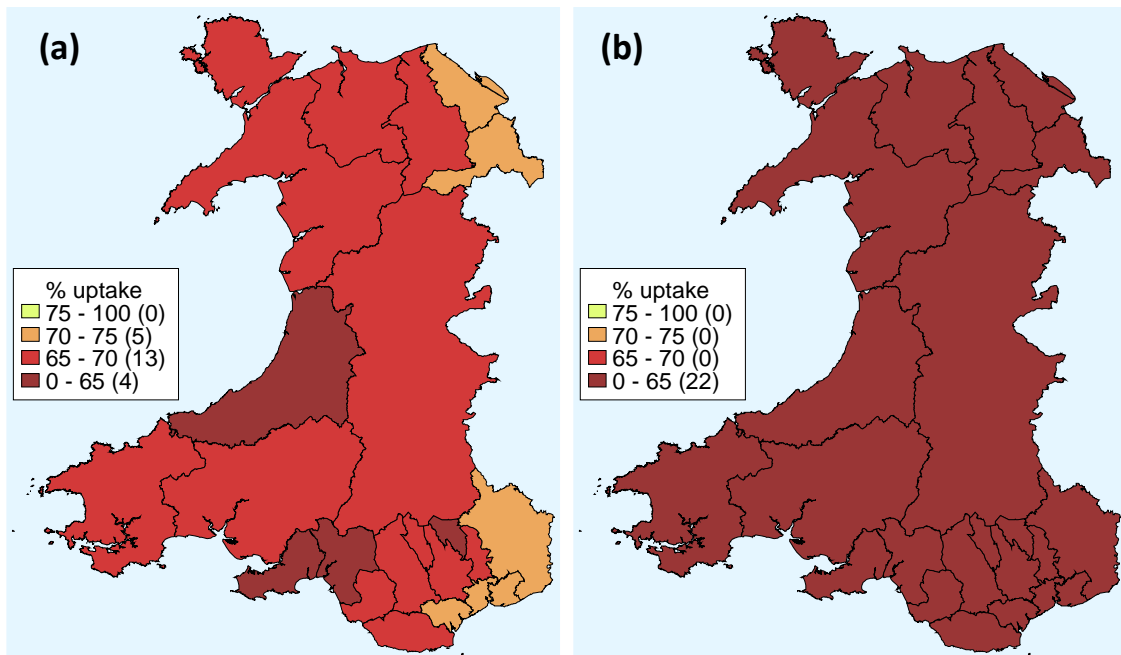


Figure 3. Uptake of influenza immunisation in Welsh Health Boards in patients aged 65 years and over 2010/11 – 2012/13.

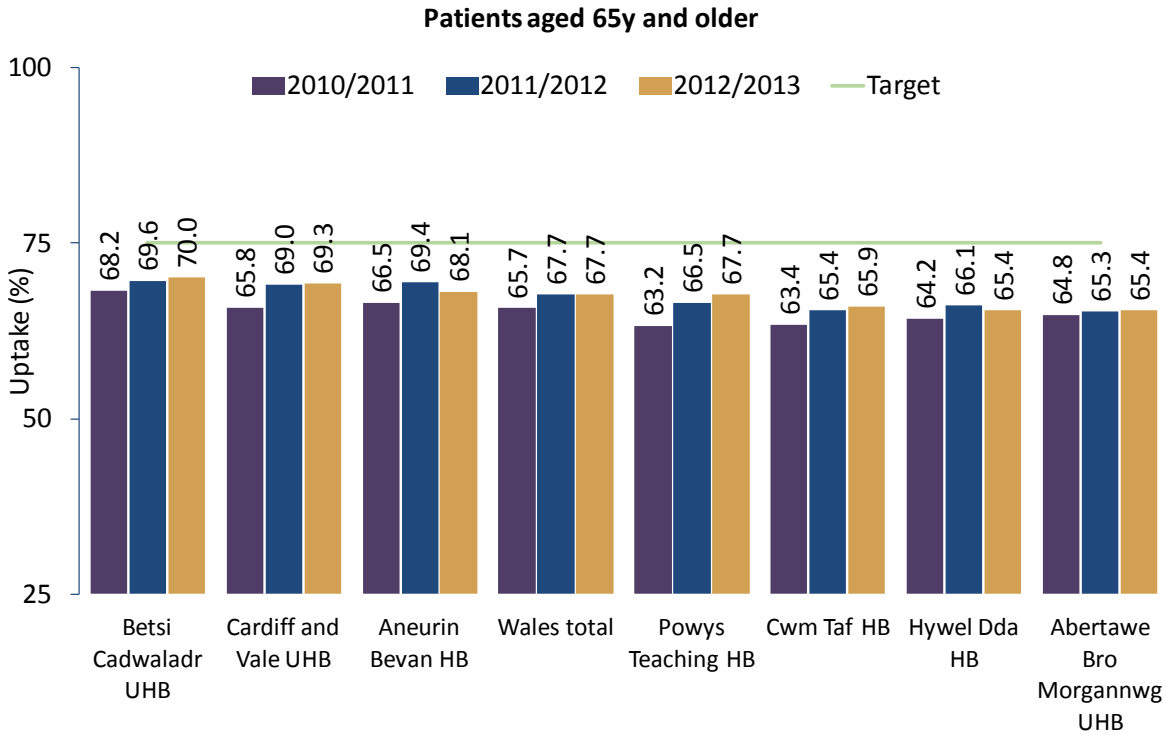


Figure 4. Uptake of influenza immunisation in Welsh Health Boards in patients aged 6 months to 64 years with one or more clinical risks 2010/11 – 2012/13.

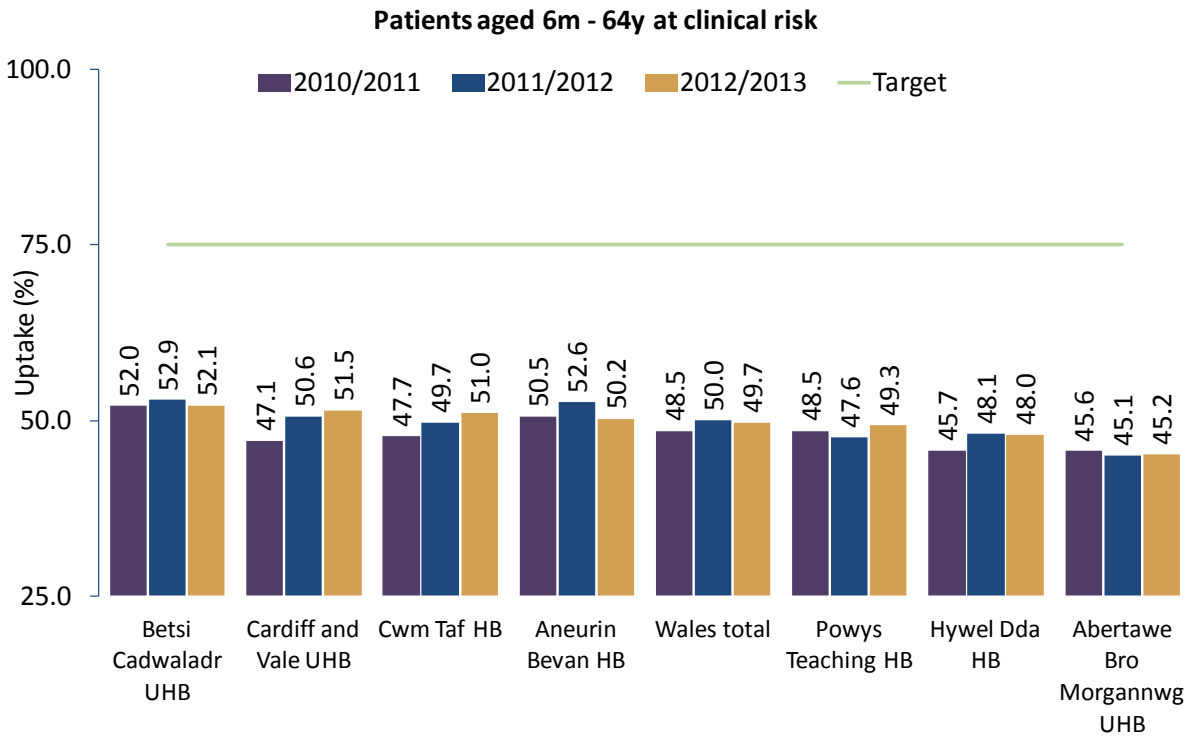


Table 2. Uptake of influenza immunisation in Wales 2012/13

Health Board	Patients aged 65y and older			Patients younger than 65y at risk			Practice report rate		
	Total	Immunised	Immunised (%)	Total	Immunised	Immunised (%)	Total	Reported	Report rate (%)
<u>Abertawe Bro Morgannwg UHB</u>	(n)	(n)	(%)	(n)	(%)	(n)	(%)	(n)	(%)
Bridgend	28960	19579	67.6	17347	7587	43.7	19	19	100
Neath Port Talbot	25303	16223	64.1	14881	6812	45.8	23	22	95.7
Swansea	46788	30250	64.7	25928	11893	45.9	35	35	100
Health Board Total	101051	66052	65.4	58156	26292	45.2	77	76	98.7
<u>Aneurin Bevan HB</u>									
Blaenau Gwent	13234	8223	62.1	8057	4119	51.1	14	14	100
Caerphilly	32391	21552	66.5	22193	10271	46.3	27	27	100
Monmouthshire	21287	15076	70.8	9554	4970	52.0	14	14	100
Newport	25166	17830	70.8	15487	8435	54.5	21	21	100
Torfaen	17409	11874	68.2	10984	5478	49.9	13	13	100
Health Board Total	109487	74555	68.1	66275	33273	50.2	89	89	100
<u>Betsi Cadwaladr UHB</u>									
Anglesey	15286	10512	68.8	7446	3951	53.1	11	11	100
Conwy	28521	19946	69.9	11446	5719	50.0	19	19	100
Denbighshire	22142	15142	68.4	10925	5336	48.8	17	17	100
Flintshire	27977	20060	71.7	15445	8403	54.4	23	23	100
Gwynedd	26128	17610	67.4	12190	5884	48.3	27	27	100
Wrexham	26651	19479	73.1	14933	8402	56.3	21	21	100
Health Board Total	146705	102749	70.0	72385	37695	52.1	118	118	100
<u>Cardiff and Vale UHB</u>									
Cardiff	50300	34538	68.7	36435	18642	51.2	50	50	100
Vale Of Glamorgan	23843	16814	70.5	12724	6663	52.4	17	17	100
Health Board Total	74143	51352	69.3	49159	25305	51.5	67	67	100
<u>Cwm Taf HB</u>									
Merthyr Tydfil	10114	6652	65.8	6500	3175	48.8	11	11	100
Rhondda Cynon Taf	43662	28812	66.0	26101	13457	51.6	37	37	100
Health Board Total	53776	35464	65.9	32601	16632	51.0	48	48	100
<u>Hywel Dda HB</u>									
Carmarthenshire	37866	25294	66.8	18851	9313	49.4	24	24	100
Ceredigion	20662	12537	60.7	8686	3925	45.2	16	16	100
Pembrokeshire	26609	17833	67.0	12686	6074	47.9	15	15	100
Health Board Total	85137	55664	65.4	40223	19312	48.0	55	55	100
<u>Powys Teaching HB</u>	32967	22313	67.7	14248	7021	49.3	17	17	100
Wales total	603266	408149	67.7	333047	165530	49.7	471	470	99.8

Table 3. Uptake of influenza immunisation in those aged 6 months to 64 years with one or more clinical risks (by risk category) 2012/13

Health Board	Total patients aged 6m to 64y	Chronic heart disease				Chronic respiratory disease				Chronic kidney disease				Diabetes			
		With condition	Immunisation uptake	With condition	Immunisation uptake	With condition	Immunisation uptake	With condition	Immunisation uptake	With condition	Immunisation uptake	With condition	Immunisation uptake				
Abertawe Bro Morgannwg UHB	(n)	(n)	(%)	(n)	(%)	(n)	(%)	(n)	(%)	(n)	(%)	(n)	(%)	(n)	(%)	(n)	(%)
Bridgend	125458	3133	2.5	1412	45.1	8718	6.9	3649	41.9	988	0.8	479	48.5	4194	3.3	2575	61.4
Neath Port Talbot	101582	2506	2.5	1192	47.6	7457	7.3	3364	45.1	1237	1.2	583	47.1	3759	3.7	2345	62.4
Swansea	204981	3985	1.9	1867	46.9	13562	6.6	6093	44.9	1124	0.5	566	50.4	6040	2.9	3642	60.3
Health Board Total	432021	9624	2.2	4471	46.5	29737	6.9	13106	44.1	3349	0.8	1628	48.6	13993	3.2	8562	61.2
Aneurin Bevan HB																	
Blaenau Gwent	58165	1367	2.4	720	52.7	3937	6.8	2074	52.7	476	0.8	237	49.8	2196	3.8	1348	61.4
Caerphilly	152863	3528	2.3	1837	52.1	11737	7.7	5025	42.8	1200	0.8	642	53.5	5545	3.6	3680	66.4
Monmouthshire	77160	1521	2.0	790	51.9	4740	6.1	2398	50.6	450	0.6	252	56.0	2200	2.9	1463	66.5
Newport	123695	2379	1.9	1316	55.3	7820	6.3	4257	54.4	745	0.6	423	56.8	4110	3.3	2721	66.2
Torfaen	77199	1777	2.3	925	52.1	5705	7.4	2769	48.5	458	0.6	271	59.2	2710	3.5	1802	66.5
Health Board Total	489082	10572	2.2	5588	52.9	33939	6.9	16523	48.7	3329	0.7	1825	54.8	16761	3.4	11014	65.7
Betsi Cadwaladr UHB																	
Anglesey	51033	1029	2.0	575	55.9	4180	8.2	2195	52.5	417	0.8	229	54.9	1460	2.9	980	67.1
Conwy	89261	1898	2.1	998	52.6	5949	6.7	2936	49.4	639	0.7	348	54.5	2481	2.8	1622	65.4
Denbighshire	80225	1981	2.5	1047	52.9	5647	7.0	2751	48.7	636	0.8	334	52.5	2448	3.1	1603	65.5
Flintshire	121413	2464	2.0	1401	56.9	8119	6.7	4365	53.8	773	0.6	470	60.8	3470	2.9	2389	68.8
Gwynedd	101793	1704	1.7	829	48.7	6492	6.4	3109	47.9	773	0.8	381	49.3	2394	2.4	1523	63.6
Wrexham	121131	2577	2.1	1429	55.5	7811	6.4	4343	55.6	865	0.7	540	62.4	3226	2.7	2324	72.0
Health Board Total	564856	11653	2.1	6279	53.9	38198	6.8	19699	51.6	4103	0.7	2302	56.1	15479	2.7	10441	67.5
Cardiff and Vale UHB																	
Cardiff	330366	5430	1.6	2729	50.3	19496	5.9	9717	49.8	1331	0.4	737	55.4	8322	2.5	5821	69.9
Vale Of Glamorgan	102392	2053	2.0	1061	51.7	6719	6.6	3406	50.7	498	0.5	289	58.0	2810	2.7	1916	68.2
Health Board Total	432758	7483	1.7	3790	50.6	26215	6.1	13123	50.1	1829	0.4	1026	56.1	11132	2.6	7737	69.5
Cwm Taf HB																	
Merthyr Tydfil	49371	1316	2.7	602	45.7	3283	6.6	1707	52.0	258	0.5	131	50.8	1554	3.1	971	62.5
Rhondda Cynon Taf	201757	4546	2.3	2457	54.0	12919	6.4	6524	50.5	1526	0.8	835	54.7	6361	3.2	4371	68.7
Health Board Total	251128	5862	2.3	3059	52.2	16202	6.5	8231	50.8	1784	0.7	966	54.1	7915	3.2	5342	67.5
Hywel Dda HB																	
Carmarthenshire	138769	3106	2.2	1590	51.2	9721	7.0	4746	48.8	764	0.6	435	56.9	4386	3.2	2719	62.0
Ceredigion	76436	1412	1.8	650	46.0	4344	5.7	1914	44.1	487	0.6	237	48.7	1913	2.5	1166	61.0
Pembrokeshire	88402	1829	2.1	888	48.6	6315	7.1	2809	44.5	591	0.7	263	44.5	2667	3.0	1693	63.5
Health Board Total	303607	6347	2.1	3128	49.3	20380	6.7	9469	46.5	1842	0.6	935	50.8	8966	3.0	5578	62.2
Powys Teaching HB	106266	2391	2.3	1166	48.8	7236	6.8	3566	49.3	746	0.7	402	53.9	2815	2.6	1805	64.1
Wales total	2579718	53932	2.1	27481	51.0	171907	6.7	83717	48.7	16982	0.7	9084	53.5	77061	3.0	50479	65.5

Table 3 (cont). Uptake of influenza immunisation in those aged 6 months to 64 years with one or more clinical risks (by risk category) 2012/13

Health Board	Total patients aged 6m to 64y (n)	Immuno-suppression				Chronic liver disease				Neurological conditions			
		With condition (n)	Immunisation uptake (%)	With condition (n)	Immunisation uptake (%)	With condition (n)	Immunisation uptake (%)	With condition (n)	Immunisation uptake (%)	With condition (n)	Immunisation uptake (%)		
<u>Abertawe Bro Morgannwg UHB</u>													
Bridgend	125458	949	0.8	514	54.2	550	0.4	195	35.5	1793	1.4	754	42.1
Neath Port Talbot	101582	781	0.8	417	53.4	544	0.5	215	39.5	1399	1.4	620	44.3
Swansea	204981	1433	0.7	717	50.0	943	0.5	352	37.3	2532	1.2	1077	42.5
Health Board Total	432021	3163	0.7	1648	52.1	2037	0.5	762	37.4	5724	1.3	2451	42.8
<u>Aneurin Bevan HB</u>													
Blaenau Gwent	58165	532	0.9	328	61.7	286	0.5	109	38.1	758	1.3	364	48.0
Caerphilly	152863	1330	0.9	752	56.5	531	0.3	188	35.4	1938	1.3	876	45.2
Monmouthshire	77160	668	0.9	433	64.8	406	0.5	180	44.3	972	1.3	488	50.2
Newport	123695	978	0.8	584	59.7	511	0.4	225	44.0	1511	1.2	761	50.4
Torfaen	77199	678	0.9	415	61.2	444	0.6	154	34.7	1083	1.4	496	45.8
Health Board Total	489082	4186	0.9	2512	60.0	2178	0.4	856	39.3	6262	1.3	2985	47.7
<u>Betsi Cadwaladr UHB</u>													
Anglesey	51033	543	1.1	350	64.5	248	0.5	114	46.0	692	1.4	348	50.3
Conwy	89261	710	0.8	392	55.2	430	0.5	181	42.1	1201	1.3	583	48.5
Denbighshire	80225	801	1.0	483	60.3	350	0.4	134	38.3	1153	1.4	528	45.8
Flintshire	121413	1211	1.0	760	62.8	533	0.4	205	38.5	1432	1.2	734	51.3
Gwynedd	101793	917	0.9	568	61.9	483	0.5	171	35.4	1049	1.0	461	43.9
Wrexham	121131	935	0.8	593	63.4	493	0.4	193	39.1	1350	1.1	748	55.4
Health Board Total	564856	5117	0.9	3146	61.5	2537	0.4	998	39.3	6877	1.2	3402	49.5
<u>Cardiff and Vale UHB</u>													
Cardiff	330366	2470	0.7	1425	57.7	1147	0.3	499	43.5	3429	1.0	1554	45.3
Vale Of Glamorgan	102392	776	0.8	469	60.4	319	0.3	143	44.8	1326	1.3	668	50.4
Health Board Total	432758	3246	0.8	1894	58.3	1466	0.3	642	43.8	4755	1.1	2222	46.7
<u>Cwm Taf HB</u>													
Merthyr Tydfil	49371	395	0.8	207	52.4	183	0.4	78	42.6	671	1.4	287	42.8
Rhondda Cynon Taf	201757	1645	0.8	948	57.6	910	0.5	370	40.7	2656	1.3	1245	46.9
Health Board Total	251128	2040	0.8	1155	56.6	1093	0.4	448	41.0	3327	1.3	1532	46.0
<u>Hywel Dda HB</u>													
Carmarthenshire	138769	1242	0.9	706	56.8	545	0.4	232	42.6	2025	1.5	954	47.1
Ceredigion	76436	659	0.9	373	56.6	254	0.3	97	38.2	893	1.2	378	42.3
Pembrokeshire	88402	894	1.0	548	61.3	639	0.7	230	36.0	1280	1.4	533	41.6
Health Board Total	303607	2795	0.9	1627	58.2	1438	0.5	559	38.9	4198	1.4	1865	44.4
<u>Powys Teaching HB</u>	106266	990	0.9	586	59.2	583	0.5	240	41.2	1462	1.4	654	44.7
Wales total	2579718	21537	0.8	12568	58.4	11332	0.4	4505	39.8	32605	1.3	15111	46.3

Table 4. Uptake of influenza immunisation in pregnant women during 2012/13, with breakdown for those who have another clinical risk condition.

Health Board	Pregnant women with clinical risk			Pregnant women without clinical risk			Total pregnant women		
	Denominator	Immunisation	Uptake	Denominator	Immunisation	Uptake	Denominator	Immunisation	Uptake
<u>Abertawe Bro Morgannwg UHB</u>	(n)	(n)	(%)	(n)	(n)	(%)	(n)	(n)	(%)
Bridgend	136	64	47.1	1243	358	28.8	1379	422	31
Neath Port Talbot	103	58	56.3	929	287	30.9	1032	345	33.4
Swansea	180	88	48.9	1996	615	30.8	2176	703	32
Health Board Total	419	210	50.1	4168	1260	30.2	4587	1470	32.0
<u>Aneurin Bevan HB</u>									
Blaenau Gwent	59	37	62.7	596	253	42.4	655	290	44
Caerphilly	129	65	50.4	1280	435	34.0	1409	500	35
Monmouthshire	84	54	64.3	826	334	40.4	910	388	43
Newport	126	75	59.5	1492	707	47.4	1618	782	48
Torfaen	94	63	67.0	864	407	47.1	958	470	49
Health Board Total	492	294	59.8	5058	2136	42.2	5550	2430	44
<u>Betsi Cadwaladr UHB</u>									
Anglesey	93	59	63.4	788	354	44.9	881	413	47
Conwy	82	54	65.9	1004	517	51.5	1086	571	53
Denbighshire	106	72	67.9	961	524	54.5	1067	596	56
Flintshire	121	88	72.7	1390	783	56.3	1511	871	58
Gwynedd	119	72	60.5	1180	584	49.5	1299	656	51
Wrexham	99	63	63.6	1515	768	50.7	1614	831	51
Health Board Total	620	408	65.8	6838	3530	51.6	7458	3938	53
<u>Cardiff and Vale UHB</u>									
Cardiff	302	195	64.6	3720	1541	41.4	4022	1736	43
Vale Of Glamorgan	94	63	67.0	958	450	47.0	1052	513	49
Health Board Total	396	258	65.2	4678	1991	42.6	5074	2249	44
<u>Cwm Taf HB</u>									
Merthyr Tydfil	34	18	52.9	505	183	36.2	539	201	37
Rhondda Cynon Taf	149	81	54.4	1817	720	39.6	1966	801	41
Health Board Total	183	99	54.1	2322	903	38.9	2505	1002	40
<u>Hywel Dda HB</u>									
Carmarthenshire	105	58	55.2	1143	421	36.8	1248	479	38
Ceredigion	32	16	50.0	577	264	45.8	609	280	46
Pembrokeshire	118	61	51.7	883	275	31.1	1001	336	34
Health Board Total	255	135	52.9	2603	960	36.9	2858	1095	38
<u>Powys Teaching HB</u>	108	71	65.7	1118	487	43.6	1226	558	46
Wales total	2473	1475	59.6	26785	11267	42.1	29258	12742	43.6

Table 5. Uptake of influenza immunisation in those aged 6 months to 64 years and recorded as being a carer in 2012/13.

Area	Carers		
	Carers (n)	Immunisation uptake (n)	(%)
Abertawe Bro Morgannwg UHB			
Bridgend	630	310	49.2
Neath Port Talbot	406	200	49.3
Swansea	1224	607	49.6
Health Board Total	2260	1117	49.4
Aneurin Bevan HB			
Blaenau Gwent	283	164	58.0
Caerphilly	777	413	53.2
Monmouthshire	809	502	62.1
Newport	868	471	54.3
Torfaen	732	455	62.2
Health Board Total	3469	2005	57.8
Betsi Cadwaladr UHB			
Anglesey	550	345	62.7
Conwy	683	381	55.8
Denbighshire	1128	537	47.6
Flintshire	1406	672	47.8
Gwynedd	1043	559	53.6
Wrexham	1310	734	56.0
Health Board Total	6120	3228	52.7
Cardiff and Vale UHB			
Cardiff	1556	695	44.7
Vale Of Glamorgan	568	360	63.4
Health Board Total	2124	1055	49.7
Cwm Taf HB			
Merthyr Tydfil	163	77	47.2
Rhondda Cynon Taf	1094	652	59.6
Health Board Total	1257	729	58.0
Hywel Dda HB			
Carmarthenshire	1328	756	56.9
Ceredigion	633	337	53.2
Pembrokeshire	1498	703	46.9
Health Board Total	3459	1796	51.9
Powys Teaching HB	828	449	54.2
Wales total	19517	10379	53.2

Table 6. Patients over 65 years and under 64 years at clinical risk who have declined influenza immunisation in 2012/13.

Health Board	Patients aged 65y and older			Patients younger than 65y			Practice report rate		
	Total	Declined	Declined	Total	Declined	Declined	Total	Reported	Report rate
	(n)	(n)	(%)	(n)	(%)	(n)	(%)	(n)	(%)
Abertawe Bro Morgannwg UHB									
Bridgend	28960	2657	9.2	125458	1745	1.4	19	19	100.0
Neath Port Talbot	25303	2984	11.8	101582	1898	1.9	23	22	95.7
Swansea	45291	3016	6.7	197629	2328	1.2	35	34	97.1
Health Board Total	99554	8657	8.7	424669	5971	1.4	77	75	97.4
Aneurin Bevan HB									
Blaenau Gwent	13234	1147	8.7	58165	655	1.1	14	14	100.0
Caerphilly	28479	2104	7.4	135560	1529	1.1	27	25	92.6
Monmouthshire	21287	1368	6.4	77160	604	0.8	14	14	100.0
Newport	25166	2639	10.5	123695	1846	1.5	21	21	100.0
Torfaen	17409	1268	7.3	77199	969	1.3	13	13	100.0
Health Board Total	105575	8526	8.1	471779	5603	1.2	89	87	97.8
Betsi Cadwaladr UHB									
Anglesey	15286	1498	9.8	51033	982	1.9	11	11	100.0
Conwy	28521	2491	8.7	89261	1021	1.1	19	19	100.0
Denbighshire	21944	1468	6.7	78123	830	1.1	17	16	94.1
Flintshire	27233	2305	8.5	118027	1690	1.4	23	22	95.7
Gwynedd	26128	2542	9.7	101793	1255	1.2	27	27	100.0
Wrexham	26651	2513	9.4	121131	1596	1.3	21	21	100.0
Health Board Total	145763	12817	8.8	559368	7374	1.3	118	116	98.3
Cardiff and Vale UHB									
Cardiff	50300	3259	6.5	330366	2670	0.8	50	50	100.0
Vale Of Glamorgan	23843	1335	5.6	102392	861	0.8	17	17	100.0
Health Board Total	74143	4594	6.2	432758	3531	0.8	67	67	100.0
Cwm Taf HB									
Merthyr Tydfil	10114	749	7.4	49371	416	0.8	11	11	100.0
Rhondda Cynon Taf	43662	4191	9.6	201757	3257	1.6	37	37	100.0
Health Board Total	53776	4940	9.2	251128	3673	1.5	48	48	100.0
Hywel Dda HB									
Carmarthenshire	37866	3284	8.7	138769	1746	1.3	24	24	100.0
Ceredigion	20662	2415	11.7	76436	965	1.3	16	16	100.0
Pembrokeshire	20869	1572	7.5	70467	907	1.3	15	12	80.0
Health Board Total	79397	7271	9.2	285672	3618	1.3	55	52	94.5
Powys Teaching HB	31114	4029	12.9	100911	2120	2.1	16	16	100.0
Wales total	589322	50834	8.6	2526285	31890	1.3	471	461	97.9

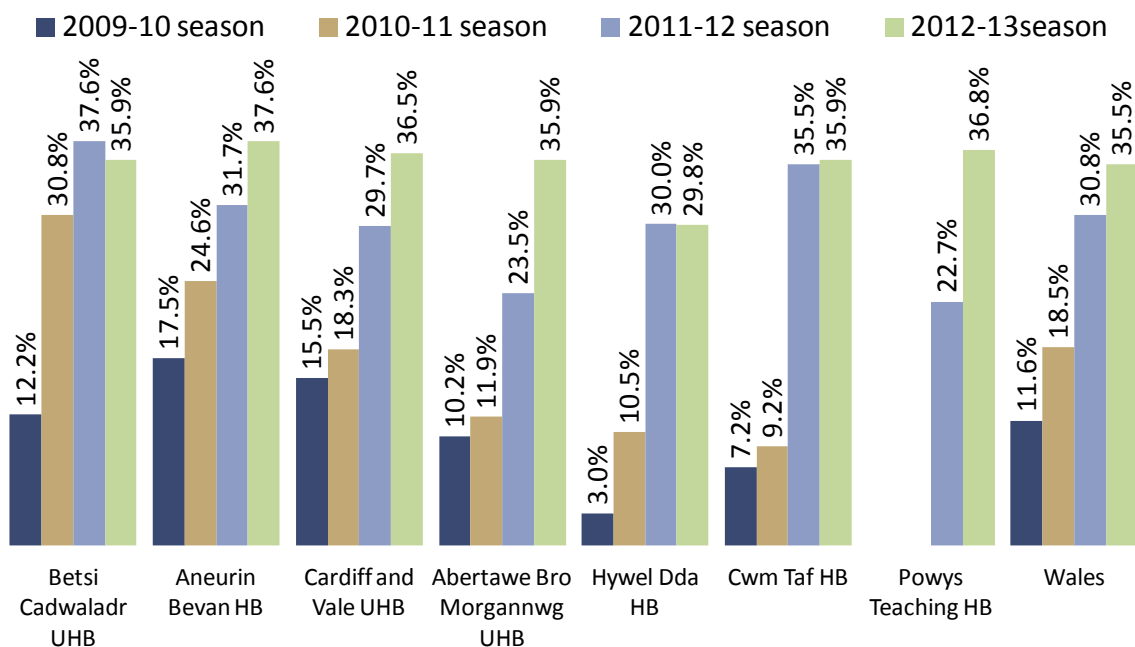
Table 7. Uptake of influenza immunisation in Occupational Health departments in Welsh Health Boards 2012/13.

Health Board	Staff immunised (n)	HB staff under care (n)	Uptake (%)
Abertawe Bro Morgannwg UHB	5720	15949	35.9
Aneurin Bevan HB	4937	13141	37.6
Betsi Cadwaladr UHB	6205	17307	35.9
Cardiff and Vale UHB	5245	14385	36.5
Cwm Taf HB	2899	8078	35.9
Hywel Dda HB	2936	9859	29.8
Powys Teaching HB	617	1675	36.8
Wales	28559	80394	35.5

Table 8. Uptake of influenza immunisation in NHS staff groups 2012/13.

Staff Group	Staff immunised (n)	Staff in Group (n)	Uptake (%)
Additional Clinical Services	4715	16009	29.5
Additional Prof Scientific and Technical	912	3062	29.8
Administrative and Clerical	5191	13469	38.5
Allied Health Professionals	2455	4642	52.9
Estates and Ancillary	2701	8843	30.5
Healthcare Scientists	513	1595	32.2
Medical and Dental	3034	7380	41.1
Nursing & Midwifery Registered	9038	25394	35.6
Total Staff	28559	80394	35.5

Figure 5. Uptake of influenza immunisation in Occupational Health departments in Welsh Health Boards 2009/10 - 2012/13



Further information on influenza and influenza immunisation can be found using the links below:

Information for Health Professionals on influenza immunisation (NHS Wales only):

<http://howis.wales.nhs.uk/sites3/page.cfm?orgid=474&pid=35590>

Information on influenza:

<http://www.wales.nhs.uk/sites3/page.cfm?orgid=457&pid=27522>

General information on influenza immunisation in Wales:

<http://www.wales.nhs.uk/sites3/page.cfm?orgid=457&pid=25480>

Influenza surveillance in Wales:

<http://www.wales.nhs.uk/sites3/page.cfm?orgid=457&pid=27922>

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Acknowledgments

Primary Care data for this report were provided through the Audit + Data Quality System. The authors would like to thank Primary Care staff and Health Board Immunisation Coordinators and their teams in ensuring data submission and monitoring data quality.

NHS staff immunisation data was provided by Health Board Occupational Health departments. The authors would like to thank NHS Occupational Health colleagues for providing monthly data returns and the All Wales Occupational Health Forum for advising on data collection.

Suggested citation

Public Health Wales Vaccine Preventable Disease Programme. Seasonal Influenza vaccine uptake in Wales - 2012/13, June 2013. Cardiff: Public Health Wales.