



Uptake of the Seasonal Influenza Vaccine in Acute Hospitals and Long Term Care Facilities in Ireland in 2015-2016

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A Report by the Health Protection Surveillance Centre

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Summary and key points

This report relates to influenza vaccination uptake among health care workers (HCWs) both in hospitals and long term care facilities (LTCFs) during the 2015-2016 influenza season in which 50 hospitals and 98 LTCFs provided completed staff vaccine uptake returns. In order to present trends over the previous five seasons, average uptake results (rather than overall figures as in previous annual reports) were calculated instead. This was done for two reasons: 1) the average is a measure that takes account of the different number of reporting institutions each season and 2) because the numbers of participating hospitals and LTCFs that have provided complete data in each of the five seasons since 2011-2012 are relatively low.

Please also note that uptake figures for previous seasons' annual reports may differ slightly from those previously presented due to updating and re-analysis of data.

Influenza Vaccine Uptake in Hospitals, 2015-2016 (Table A)

- 89.7% (52/58) of known hospitals (including three private ones) participated in the 2015-2016 survey
- Nationally, average uptake among all categories of hospital HCWs was 22.5% based on 50 complete returns
- 7 (14.0%) hospitals exceeded the 40% national uptake target
- Average uptake varied by Hospital Group (range 14.7-37.6%)
- Highest average uptake was reported in Acute Paediatric Services Hospital group
- At national level, the average uptake varied by HSE staff category (16.7-38.2%), the highest value was reported among 'medical and dental' professionals and lowest among 'nursing' staff
- Average uptake generally increased as the category size of eligible staff within hospitals also increased

Table A. Average Influenza vaccine uptake hospital HCWs by Hospital Group, Staff Category Grade, Staff Size and Season (based on complete returns only)

	Seasonal AVERAGE % Uptake in Hospital HCWs				
Hospital Group**	2011-2012	2012-2013	2013-2014	2014-2015	2015-2016
Dublin Midlands (TCD)	19.0	19.0	23.6	30.6	30.9
Dublin North East (RCSI)	27.1	21.6	31.6	22.9	27.1
Ireland East (UCD)	20.1	19.6	26.5	21.9	23.9
Midwest (UL)	na	na	11.6	17.9	15.5
South/South West (UCC)	9.4	9.4	12.1	11.2	14.7
West/North West (Saolta UHC; NUIG)	11.9	11.0	16.7	17.9	15.7
Acute Paediatric Services	27.7	23.5	31.3	29.4	37.6
Private	na	na	29.7	31.4	23.1
Other*	26.0	5.3	17.5	34.1	24.2
HSE Grade Category					
General Support Staff	24.4	21.2	28.3	25.4	28.2
Health & Social Care Professionals	27.9	19.7	28.5	25.8	29.4
Management & Administration	21.0	18.4	23.9	24.6	22.5
Medical & Dental	22.6	19.3	34.0	31.9	38.2
Nursing	13.4	11.2	16.7	16.6	16.7
Other Patient & Client Care	24.9	20.1	23.5	23.5	22.4
Eligible HCW Staff Category Size/Hospital					
<250 (n=number of hospitals)	13.2 (6)	6.7 (5)	15.2 (6)	9.4 (5)	11.8 (6)
250-499 (n)	23.4 (8)	16.8 (6)	19.5 (12)	21.7 (12)	22.9 (3)
500-999 (n)	19.3 (10)	14.6 (9)	21.9 (11)	24.9 (11)	24.4 (11)
1000-1999 (n)	14.0 (11)	13.3 (8)	22.8 (9)	19.0 (10)	22.4 (10)
>=2000 (n)	18.8 (7)	19.7 (7)	27.1 (8)	26.6 (7)	26.5 (10)
All Hospital HCW Staff	17.7	14.6	21.5	21.3	22.5
Number of Participating Hospitals with Complete Staff Uptake Returns	42	35	46	45	50

na = not available/data not reported

*Other=non-acute publicly funded hospitals

**See <http://www.nehb.ie/eng/about/Who/acute/hospitalgroups.html> for details of hospital groups and their location

Influenza Vaccine Uptake in LTCFs, 2015-2016 (Table B)

- 44.1% (101/229) of known LTCFs participated in the 2015-2016 survey
- Nationally, average uptake among all categories of LTCF HCWs was 26.6% based on 98 complete returns
- 18 (18.4%) LTCFs exceeded the 40% national uptake target
- Average uptake varied by Community Health Organisation (CHO) (range 15.2-48.1%)
- Highest average uptake was reported in Community Health Organisation (CHO) 9 (Dublin North, Dublin North Central, Dublin North West)
- At national level, the average uptake varied by HSE staff category (25.7-43.4%), the highest value was reported among 'medical and dental' professionals and lowest among 'nursing' staff
- No association was observed between average uptake and category size of eligible staff within LTCFs
- Uptake among long stay residents since the beginning of the season was 87.5% among LTCFs
- Uptake among respite residents vaccinated within 101 LTCFs since the beginning of the season was 11.2%
- Uptake among respite residents vaccinated before admission to 101 LTCFs since the beginning of the season was 26.8%

Table B. Average influenza vaccine uptake in LTCF HCWs by CHO, Staff Category Grade, Staff Size and Season
(based on complete returns only)

	Seasonal AVERAGE % Uptake in LTCF HCWs				
Community Health Organisation (CHO) Area and LHOs within them *	2011-2012	2012-2013	2013-2014	2014-2015	2015-2016
Area 1: DL; SO/LM; CN/MN	14.3	12.5	29.2	26.1	27.1
Area 2: G; RN; MO	18.0	18.0	27.4	22.9	18.7
Area 3: CE; L; TN/EL	13.8	15.7	33.2	38.9	44.1
Area 4: KY; NC; NSL; WC	5.1	10.8	13.0	18.6	21.2
Area 5: TS; CW/KK; WD; WX	14.7	8.7	17.4	15.5	15.2
Area 6: WW; DS; DSE	37.1	26.4	47.6	40.4	33.3
Area 7: KE; DW; DSC; DSW	21.9	19.0	20.9	28.4	29.4
Area 8: LS/OY; LD/WH; LH/MH	14.9	27.1	23.5	22.8	22.2
Area 9: DN; DNC; DNW	22.6	28.6	41.6	52.1	48.1
HSE Grade Category					
General Support Staff	17.0	16.4	28.4	30.5	31.1
Health & Social Care Professionals	11.7	13.0	35.5	43.3	32.4
Management & Administration	17.0	18.5	36.7	40.1	39.0
Medical & Dental	5.2	6.7	48.6	55.1	43.4
Nursing	14.3	15.3	26.2	27.2	25.7
Other Patient & Client Care	13.6	8.3	27.0	30.6	26.7
Eligible HCW Staff Category Size/ LTCF					
<50 (n=number of LTCFs)	12.0 (39)	18.7 (69)	30.1 (45)	26.3 (30)	28.9 (42)
50-99 (n)	21.5 (15)	14.9 (28)	24.7 (26)	30.4 (33)	24.7 (24)
100-149 (n)	27.8 (8)	15.9 (15)	26.3 (22)	33.2 (9)	23.7 (12)
>=150 (n)	13.5 (8)	13.1 (25)	19.5 (24)	24.9 (19)	25.6 (20)
All LTCF HCW Staff	16.0	16.6	26.0	28.1	26.6
Number of Participating LTCFs with Complete Staff Uptake Returns	70	137	117	91	98

* Area 1: Donegal; Sligo/Leitrim/West Cavan; Cavan/Monaghan; Area 2: Galway; Roscommon; Mayo; Area 3: Clare; Limerick; North Tipperary/East Limerick; Area 4: Kerry; North Cork; North Lee; South Lee; West Cork; Area 5: South Tipperary; Carlow/Kilkenny; Waterford; Wexford; Area 6: Wicklow; Dun Laoghaire; Dublin South East; Area 7: Kildare/West Wicklow; Dublin West; Dublin South City; Dublin South West; Area 8: Laois/Offaly; Longford/Westmeath; Louth/Meath; Area 9: Dublin North; Dublin North Central; Dublin North West

Introduction

Since 2011-2012, HSE recommends that all HCWs in Irish health services receive the seasonal influenza vaccination each year. Achieving a high uptake of influenza vaccination among HCWs is recognised as a vital infection control measure and an occupational health issue, to reduce the risk of influenza transmission between patients and HCWs with the potential for severe disease for both patients and staff. This fifth annual report summarises the uptake of seasonal influenza vaccine in 2015-2016 amongst healthcare workers (HCWs) in acute hospitals and long term care facilities (LTCFs) (LTCFs include disability/mental health facilities and care for the elderly units)[†]. Between January and May of this year, influenza-related general outbreaks occurred in 13 hospitals and 21 LTCFs with 110 people reported ill in hospitals and 218 in LTCFs; this compares to 17 similar outbreaks in hospitals and 72 in LTCFs over the same period of time in 2015 when 380 people were reported ill in hospitals and 1,069 in LTCFs.

On the 8th October 2013, the HSE Leadership team reviewed and endorsed an action plan to improve national influenza vaccination coverage of HCWs in Ireland. Among the actions endorsed by the team for each facility/hospital was a target of 40%. A protocol was circulated to known influenza coordinators, directors and CEOs in both acute hospitals and LTCFs and also to HSE area managers, the latest version of which is located at: <http://www.hpsc.ie/A-Z/Respiratory/Influenza/SeasonalInfluenza/InfluenzaandHealthcareWorkers/>. Separate online survey forms for hospitals (Appendix 1.1) and LTCFs (Appendix 1.2) were designed using the <http://www.demographix.com> website.

As in previous surveys, the survey forms were designed to capture aggregate data on the number of HCWs (one of six categories used by HSE: management and administration; medical and dental; nursing; health and social care professional; other patient and client care; general support staff) eligible for vaccination and the number vaccinated during the season.

Methodology

For hospitals, occupational health departments were asked to provide data on the number and category of HCWs vaccinated by the service. The Human Resources (HR) departments were requested to provide data on the numbers of staff employed in the hospital by category.

In LTCFs, data on vaccination uptake among was sought from the nominated coordinators for each unit (supported by senior management). Information was also sought on the number of residents and respite care patients present and vaccinated during this time period.

An email with a separate link to the online forms was emailed to influenza coordinators/named contacts based[‡] in 58 hospitals (seven of which are privately funded) and 229 LTCFs* on the 9th December 2015. Each coordinator was asked to complete the survey online using aggregate uptake data relating to the previous three months, from October to December. Instructions on how to complete the forms, how to calculate the numerator (number vaccinated) and denominator

[†] in health care institutions that have ever provided data returns in any of the previous surveys and are currently in operation

* These also include privately funded facilities, some of which are approved by the HSE, are registered with HIQA or avail of the Nursing Home Support Scheme

(number eligible) of staff and clients, and a description of staff categories was included in the attached protocol.

On 25th April 2016, a request for cumulative seasonal uptake figures were made via email with links to online survey forms that were essentially identical to those circulated back in the previous December.

Over the course of the 2015-2016 season, data were routinely downloaded from the *Demographix* website, cleaned and imported into a MS-Access database. Provisional data on the seasonal influenza programme was reported to the HSE Leadership team on 3rd February 2016. For the end-of-season analyses, aggregate data relating to vaccination uptake October 2015-April 2016 were used for both hospitals and LTCFs, otherwise the most recent or only set of facility returns for the analyses were used. Statistical analyses were performed in MS-Excel. The significance level was fixed at 0.05.

Results

Hospitals

Hospital participation

Previous survey participation by hospitals has had to be revised in terms of their numbers for the purposes of this report for a variety of reasons:

- participation by private hospitals began in 2013-2014, although data returns have not been provided by all of them in each season since then
- change in the eligibility status over the course of five seasons of what had previously been reported as hospitals, but were in fact long term care facilities[§] or, in one case, a public health/administration centre for the HSE^{**}, all of which were based in the south-east of the country
- closure of one hospital in the south of the country in 2012-2013^{††}

For the 2015-2016 season, a total of 58 hospitals (including seven private hospitals, one of which participated for first time in 2015-2016^{††}) were identified as eligible for inclusion in the survey. In all, 52 (89.7%) hospitals participated and responded by providing some data, but only 50 (86.2%) provided complete staff vaccine uptake data returns. Thirteen hospitals (26.0%) submitted their final complete cumulative seasonal figures up until the end of December only and 37 (74.0%) at the end of April/beginning of May. Three (6.0%) of the 50 participating hospitals that provided complete returns in the 2015-2016 season were privately funded^{§§}. Different degrees of participation by eligible hospitals over the previous five seasons are presented in Figure 1: only 18 hospitals have provided a completed staff uptake figures each season. In 2015-2016 three hospitals provided details of whole time equivalent (WTE) staff figures rather than the *actual* number of eligible staff, but were included in the analyses.

Hospital staff vaccine uptake

In 2015-2016, average influenza vaccine uptake for all hospital staff in 50 hospitals was 22.5%, up from 21.3% from the previous season when 45 hospitals provided complete returns, an increase that was not statistically significant (Table 1). Details of staff uptake by the 52 individual hospitals in 2015-2016 are presented in Appendix 2.1. Seven out of the 50 hospitals that provided complete returns (14.0%) exceeded the 40% national uptake target, compared to four (8.9%) of the 45 hospitals in the previous season. Details of staff uptake within each hospital over the past five seasons are presented in Appendix 2.2.

[§] Carlow District Hospital, Carlow; Castlecomer District Hospital, Kilkenny; Sacred Heart Hospital, Carlow; St. Canice's Hospital, Kilkenny; St. Columba's Hospital, Thomastown, Kilkenny; St. Dymphna's Hospital, Carlow; St. Patrick's Hospital, Cashel, Tipperary; St Luke's General Hospital, Clonmel

^{**} Lacken Hospital, Kilkenny

^{††} St Mary's Orthopaedic Hospital, Gurranebraher, Cork

^{‡‡} Bon Secours Hospital, Tralee

^{§§} Two participating hospitals that provided incomplete data returns in 2015-2016: Mercy University Hospital Cork and St. Columcille's Hospital, Loughlinstown, Co. Dublin (latter reported an overall uptake figure (21.3%) which was excluded from the calculation of summary statistics presented in this report)

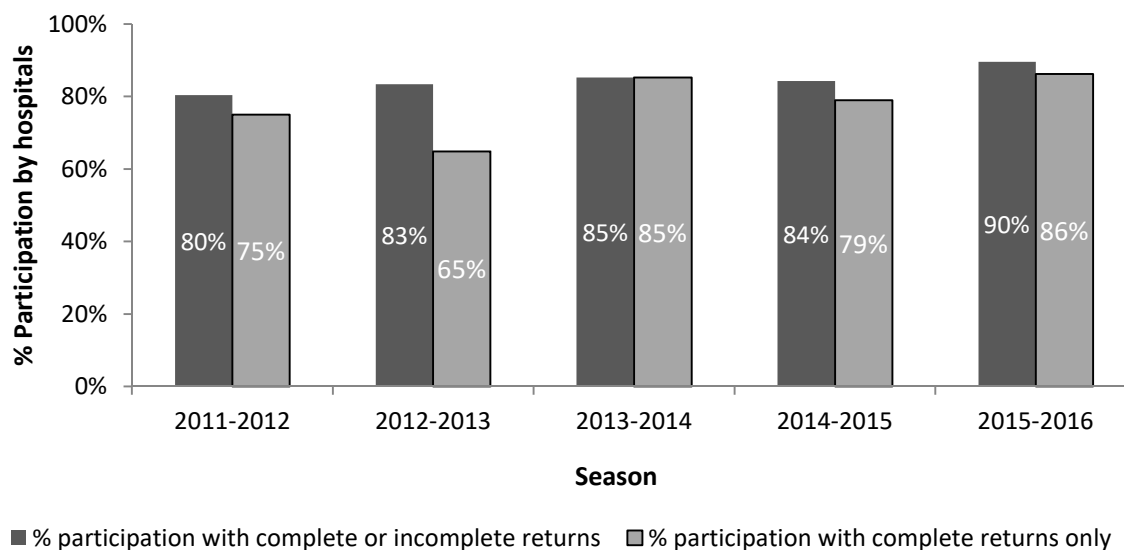


Figure 1 Percentage of eligible hospitals by level of survey participation and influenza season (2011-2012 n=56; 2012-2013 n=54; 2013-2014 n=54; 2014-2015 n=57; 2015-2016 n=58), Ireland (includes eight facilities that reported as hospitals in previous seasons, but have now been correctly recorded as long term care facilities)

Table 1 Details of seasonal influenza vaccine uptake among hospital-based HCWs by influenza season, Ireland*

Season	Total No. Eligible HCWs	Total No. Vaccinated HCWs	Average % Uptake	Average % Uptake 95% CIs	Median % Uptake	Range % Uptake	No. Participating Hospitals
2011-2012	46329.02	8275	17.7	14.68-20.75	15.7	4.00-39.98	42
2012-2013	41995.16	7325	14.6	11.59-17.52	11.0	3.48-38.79	35
2013-2014	50202.39	12234	21.5	18.48-24.49	19.4	2.56-45.87	46
2014-2015	51324.22	12006	21.3	17.57-25.01	20.1	1.12-47.53	45
2015-2016	59204.52	14833	22.5	19.38-25.62	19.8	6.89-47.04	50

*based on complete returns only

Average uptake varied by Hospital Group from 14.7% to 37.6% among the 50 responding hospitals during 2015-2016 that provided complete returns, with average uptakes highest in the Acute Paediatric Services group and lowest in the South/South West (UCC) group (Figure 2). Details of average staff uptake numbers across the different Hospital Groups, CHOs and HSE Areas during 2015-2016 are shown in Appendices 3.1, 3.2 and 3.3, respectively.

At national level, the average uptake varied by HSE staff category (16.7-38.2%), with the highest value reported among 'medical and dental' professionals and lowest among 'nursing' staff. Between 2014-2015 and 2015-2016 average uptake increased among medical and dental professionals (+6.3%), health and social care professionals (+3.7%), general support staff (+2.8%), nursing staff (+0.1%), but declined among other patient and client care staff (-1.1%) and management and administration (-2.1%) (Figure 3). None of these changes in average uptake levels between the different categories of staff between 2014-2015 and 2015-2016 were statistically significant. Details of the uptake among different hospital staff grades in 2015-2016 are presented in Appendix 4.

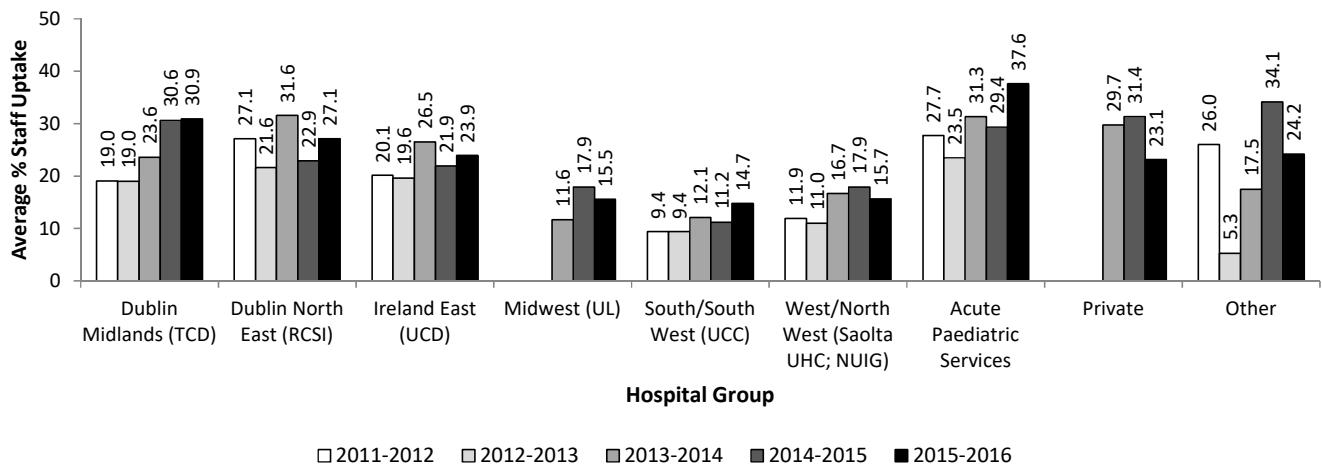


Figure 2 Average seasonal vaccine uptake among hospital-based HCWs by influenza season and Hospital Group, Ireland (based on complete returns only) Notes: 1) data for the Midwest (UL) and private groups not available in 2011-2012 and 2012-2013; 2) excludes returns from 8 facilities that reported as hospitals in previous seasons, but have now been correctly recorded as long term care facilities. See <http://www.nehb.ie/eng/about/Who/acute/hospitalgroups.html> for a description of hospital groups and their location

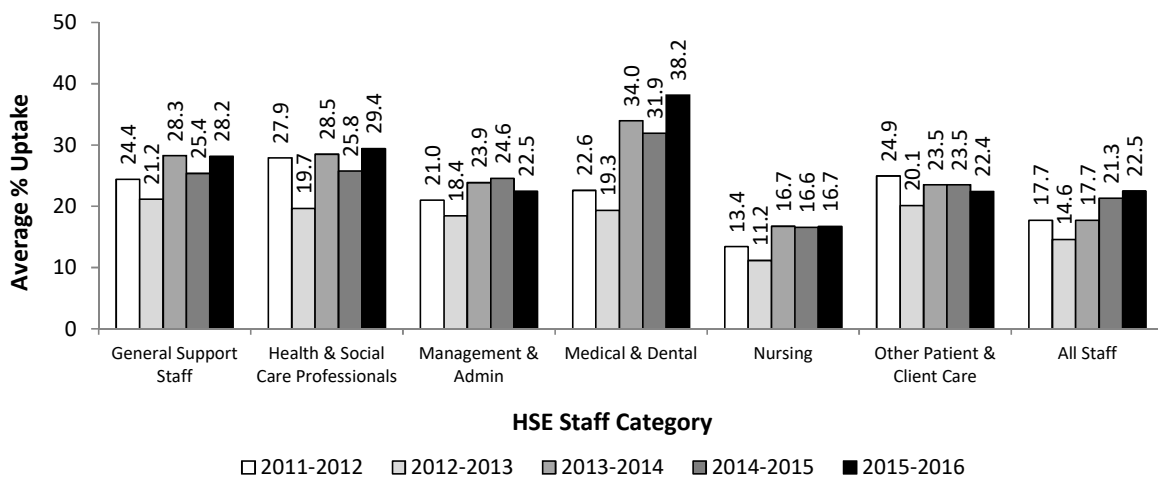


Figure 3 Average vaccine uptake among hospital-based HCWs by HSE grade category and influenza season, Ireland (based on complete returns only)

When hospital staff sizes were categorised, average uptake increased as staff size increased: average uptake was lowest where staff size was <250 HCWs at 11.8% and highest when staff size was ≥2000 HCWs at 26.5% (Figure 4).

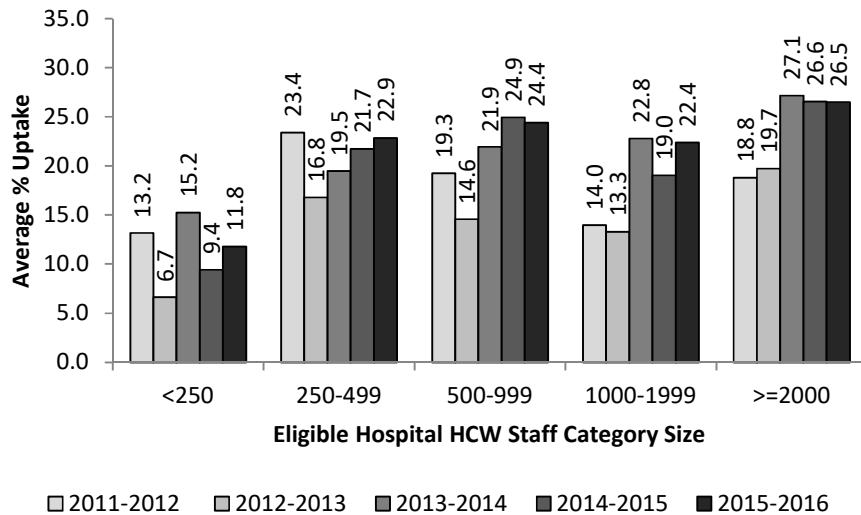


Figure 4 Average vaccine uptake among hospital-based HCWs by category of staff size and influenza season, Ireland (based on complete returns only)

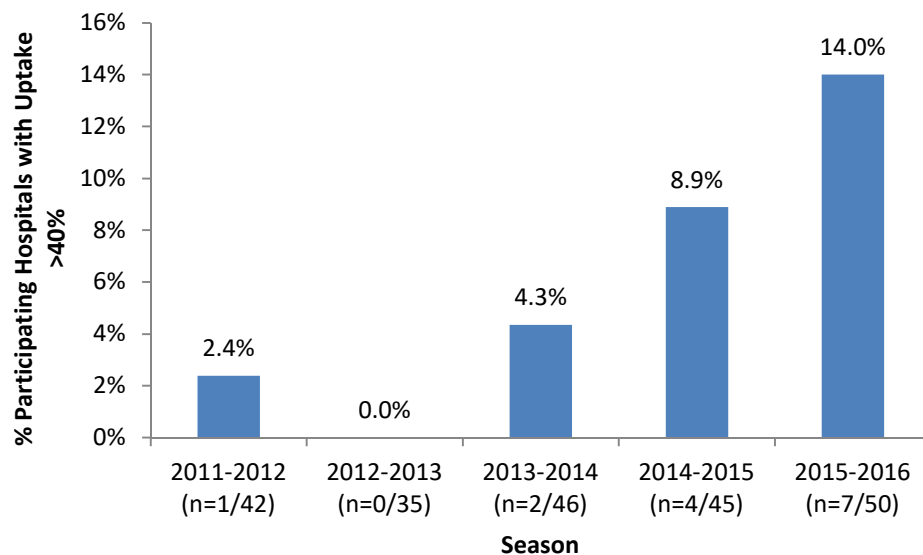


Figure 5 Percentage of participating hospitals with an uptake >40%, by season, Ireland (based on complete returns only)

The percentage of participating hospitals reporting uptake in excess of 40% in 2015-2016 was 14.0%, part of an increasing trend seen over the previous three seasons (Figure 5).

Long term care facilities (LTCFs)

LTCF participation

The total number of registered nursing homes registered by HIQA in June 2015 was 567 according to HIQA (www.hiqa.ie), some of which were publicly funded by the HSE, whilst others were privately funded. Of the 567 LTCFs, 229 were invited to participate in this fifth seasonal flu vaccine uptake survey as most of these were HSE-funded and had also participated in previous surveys. In 2015-2016, six new LTCFs were identified and added to the HPSC contacts database. Five of these six new LTCFs care for those with either a mental health/intellectual or some other disability. The targeted number of (eligible) LTCFs remained unchanged between 2014-2015 and 2015-2016, because a number were also reported as having closed.

Of the 101 LTCFs that submitted data in 2015-2016, 98 LTCFs (97.0%) provided complete staff vaccine uptake returns: 64 (65.3%) provided cumulative data up until the end of December 2015 and 34 (34.7%) provided cumulative data up until the end of April/early May 2016. Different levels of participation by eligible LTCFs since 2011-2012 are presented in Figure 6: only 17 LTCFs have provided a completed staff uptake figures each season. In 2015-2016, one LTCF was known to have provided details of whole time equivalent (WTE) staff figures rather than the *actual* number of eligible staff, but was included in the analyses.

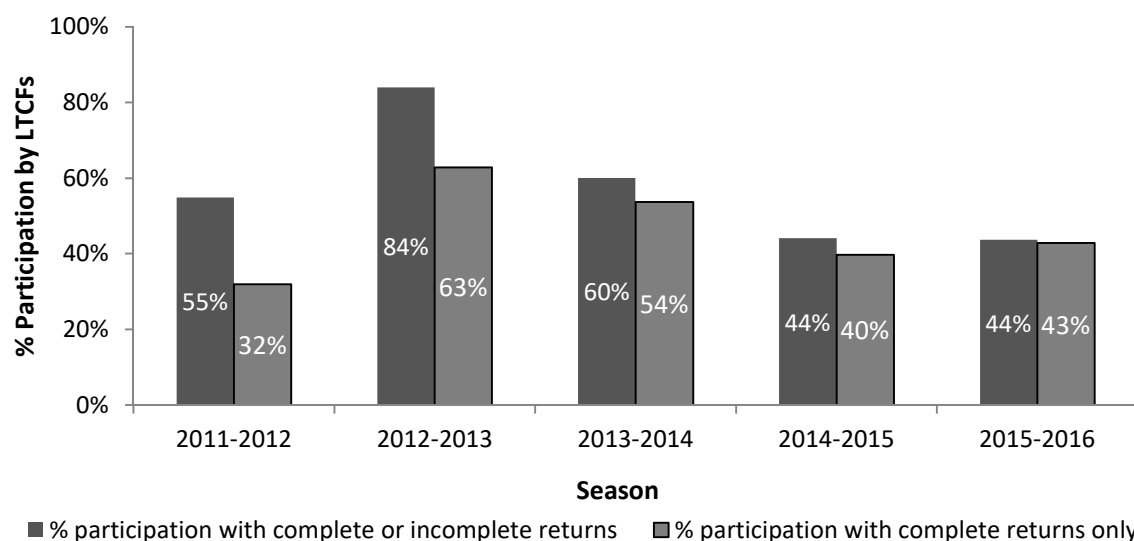


Figure 6 Percentage of eligible LTCFs by level of survey participation and influenza season (2011-2012 n=219; 2012-2013 n=218; 2013-2014 n=218; 2014-2015 n=229; 2015-2016 n=229), Ireland

LTCF staff vaccine uptake

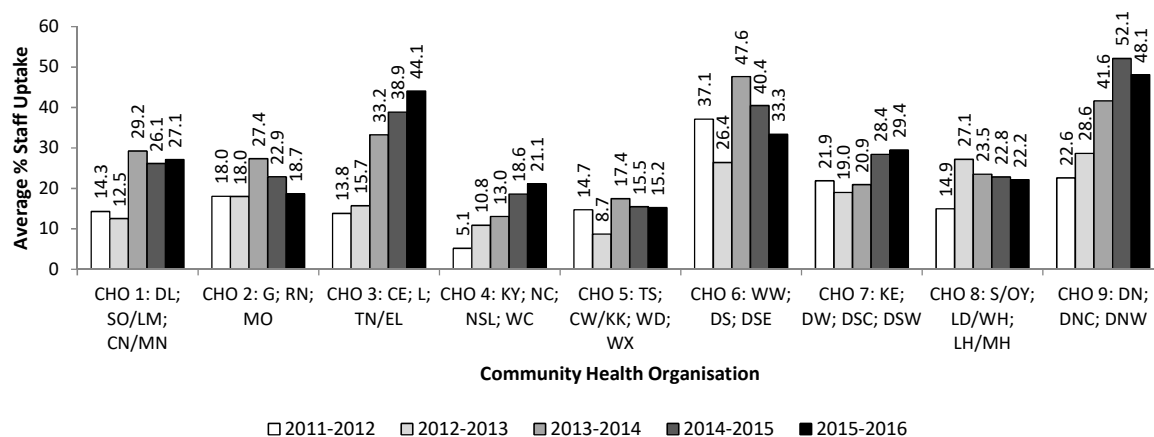
In 2015-2016, average influenza vaccine uptake for all staff in 98 LTCFs was 26.6% down from 28.1% in the previous season. Further uptake details by season are presented in Table 2. Details of staff uptake by individual LTCFs in 2015-2016 are shown in Appendix 5.1. Eighteen (18.4%) of 98 LTCFs in 2015-2016 exceeded the 40% national uptake target, compared to 24 (26.3%) of the 91 LTCFs in the previous season. Details of average staff uptake in all LTCFs over the previous five seasons are presented in Appendix 5.2.

Table 2 Details of seasonal influenza vaccine uptake among LTCF-based HCWs by influenza season, Ireland*

Season	Total No. Eligible HCWs	Total No. Vaccinated HCWs	Average % Uptake	Average % Uptake 95% CIs	Median % Uptake	Range % Uptake	No. Participating LTCFs
2011-2012	4705	849	16.0	11.45-20.58	10.0	0-90.38	70
2012-2013	14458.01	2082	16.6	13.92-19.25	11.8	0-76	137
2013-2014	14053.8	3268	26.0	22.13-29.9	20.6	0-100	117
2014-2015	10658	2739	28.1	24.2-32.09	25.0	0-96.42	91
2015-2016	9354.64	2420	26.6	22.65-30.47	22.8	0-100	98

*based on complete returns only

Average uptake varied by CHO among the 98 responding LTCFs during 2015-2016 that provided complete returns, with average uptakes highest in CHO 9 (48.1%) and lowest in CHO 5 (15.2%) (Figure 7). Details of the staff uptake numbers during the 2015-2016 season across all nine CHOs and eight HSE Areas are shown in Appendices 6.1 and 6.2, respectively.

**Figure 7** Average seasonal vaccine uptake among LTCF-based HCWs by influenza season and CHO, Ireland (based on complete returns only)

See footnote at bottom of page 5 for details of each Community Health Organisation and their location

Details of the uptake among LTCF staff grades in 2015-2016 are presented in Appendix 7. Between 2014-2015 and 2015-2016 average uptake decreased uptake across all staff grades with the exception of general support staff (+0.6%): medical and dental staff (-11.7%), health and social care professionals (-11.0%), other patient and client care professionals (-3.8%), nursing (-1.5%) and management and administration staff (-1.2%) (Figure 8). The reductions in average uptake levels among social care professionals between 2014-2015 and 2015-2016 were both statistically significant.

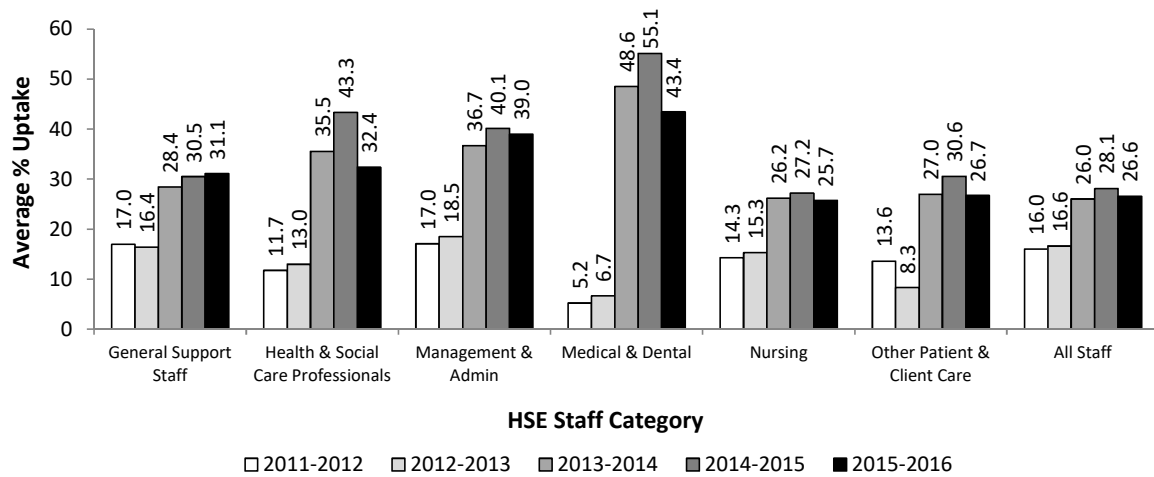


Figure 8 Average vaccine uptake among LTCF-based HCWs by HSE grade category and influenza season, Ireland (based on complete returns only)

When LTCF staff sizes were categorised, average uptake did not increase as staff size increased: average uptake was highest when staff size was <50 HCWs at 28.9% in 2015-2016 (Figure 9).

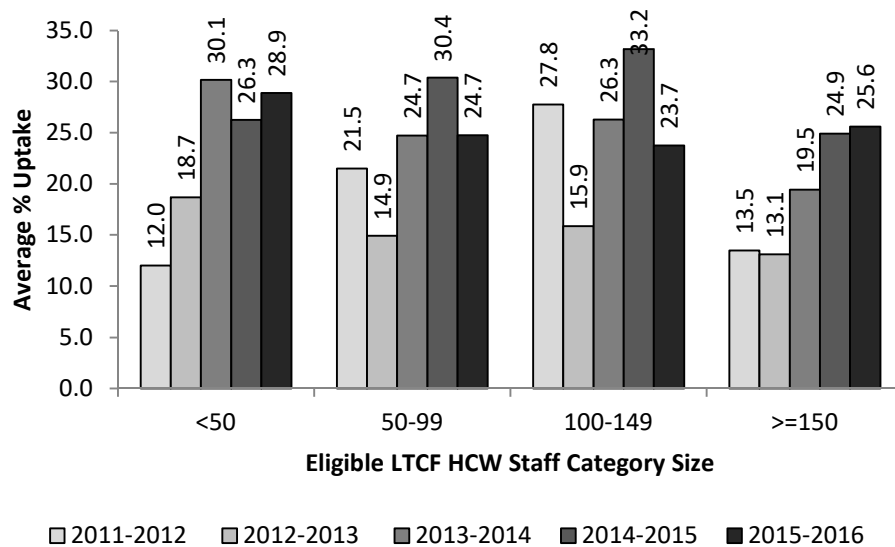


Figure 9 Average vaccine uptake among LTCF-based HCWs by category of staff size and influenza season, Ireland (based on complete returns only)

The percentage of participating LTCFs reporting uptake in excess of 40% in 2015-2016 fell to 18.4%, breaking a rising trend observed over the three previous three seasons (Figure 10).

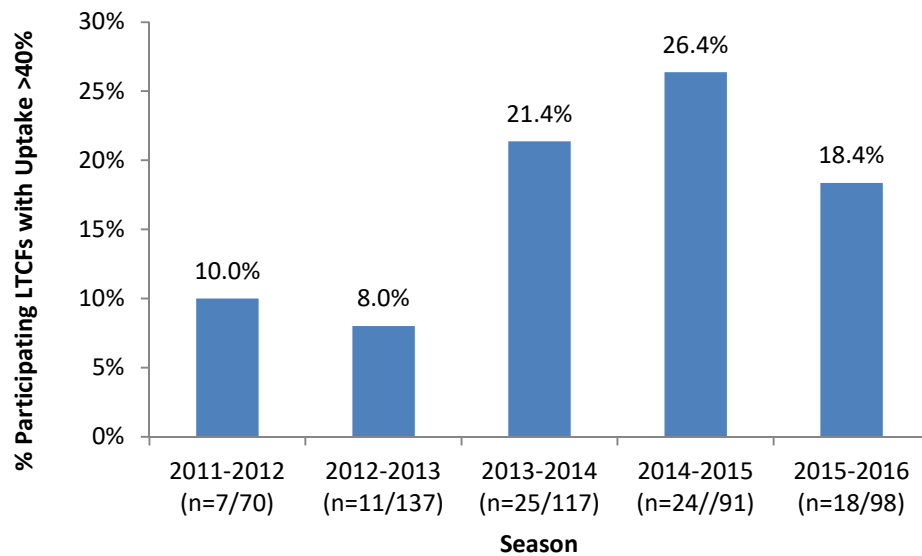


Figure 10 Percentage of participating LTCFs with an uptake >40%, by season, Ireland

Long stay residents

Uptake among long stay residents since the beginning of the season decreased from 96.9% among 100 LTCFs in the previous season to 87.5% among 100^{***} LTCFs in 2015-2016 (Figure 11; Appendix 8).

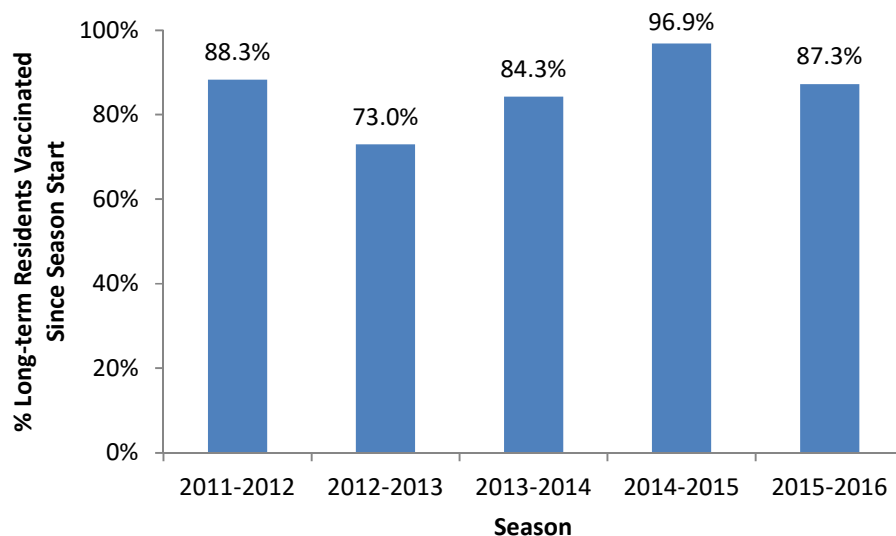


Figure 11 Percentage of long term residents vaccinated since season start by influenza season, Ireland (data based on the following number of participating LTCFs: 2011-2012 n=120; 2012-2013 n=183; 2013-2014 n=131; 2014-2015 n=101; 2015-2016 n=100)

^{***} One of the 101 LTCFs that participated in the 2015-2016 survey did not provide complete information on resident uptake details

Respite (short-stay) residents

The percentage of respite residents vaccinated prior to admission in 2015-2016 was 26.8% among 100 reporting LTCFs (Figure 12; Appendix 8). In contrast, over the same period, the percentage of respite residents vaccinated in-house among the same LTCFs was 11.2% (Figure 13; Appendix 9.1).

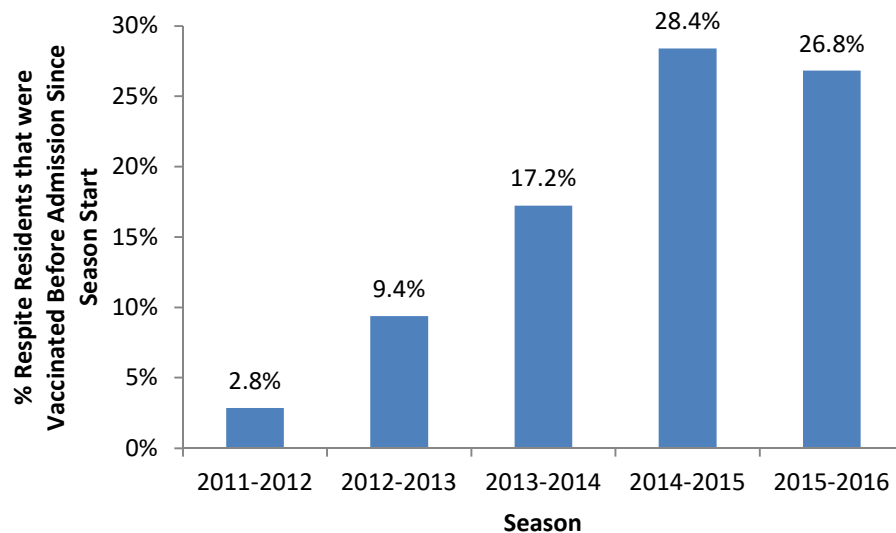


Figure 12 Percentage of respite residents vaccinated *before admission* to LTCF since season start by influenza season, Ireland (data based on the following number of participating LTCFs: 2011-2012 n=120; 2012-2013 n=183; 2013-2014 n=131; 2014-2015 n=101; 2015-2016 n=100)

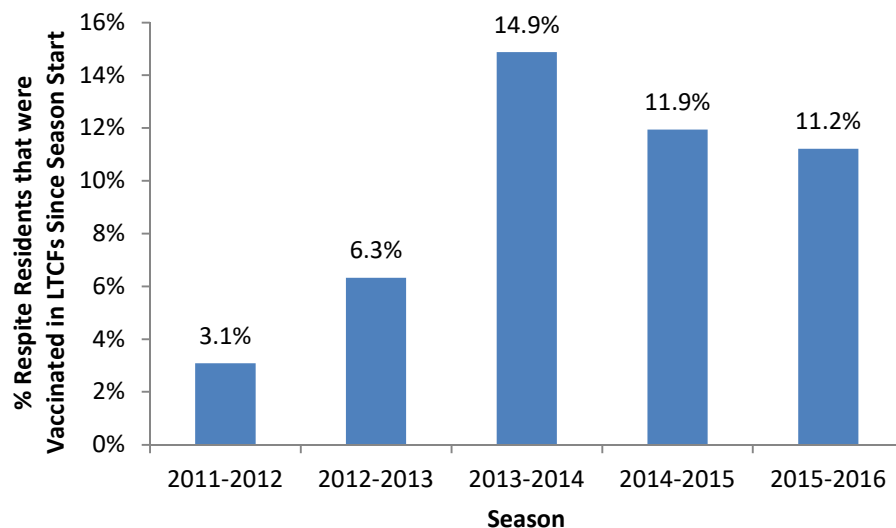


Figure 13 Percentage of respite residents vaccinated *in* LTCF since season start by influenza season, Ireland (data based on the following number of participating LTCFs: 2011-2012 n=120; 2012-2013 n=183; 2013-2014 n=131; 2014-2015 n=101; 2015-2016 n=100)

Vaccination policies

The percentage of LTCFs that reported having a policy recommending that respite residents are vaccinated before being admitted was 26.0%, an improvement on the previous season (20.8%), and it maintains a trend that begun back in 2011-2012 (Figure 14, Appendix 9.2).

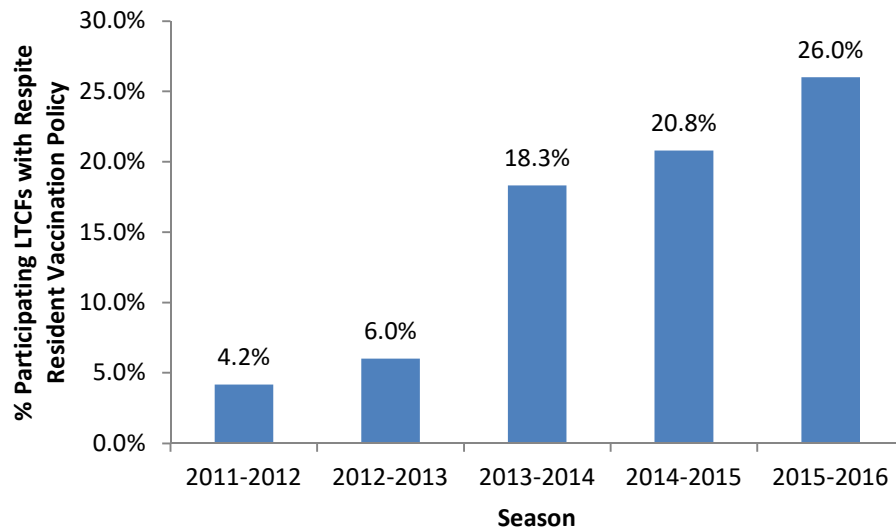


Figure 14 Percentage of LTCFs with a *Respite Resident Vaccination Policy* by influenza season, Ireland (data based on the following number of participating LTCFs: 2011-2012 n=120; 2012-2013 n=183; 2013-2014 n=131; 2014-2015 n=101; 2015-2016 n=100)

The number of LTCFs that reported having a staff vaccination policy during 2015-2016 was 18.0% (Figure 15; Appendix 9.2), an improvement on the 8.9% reported during 2014-2015.

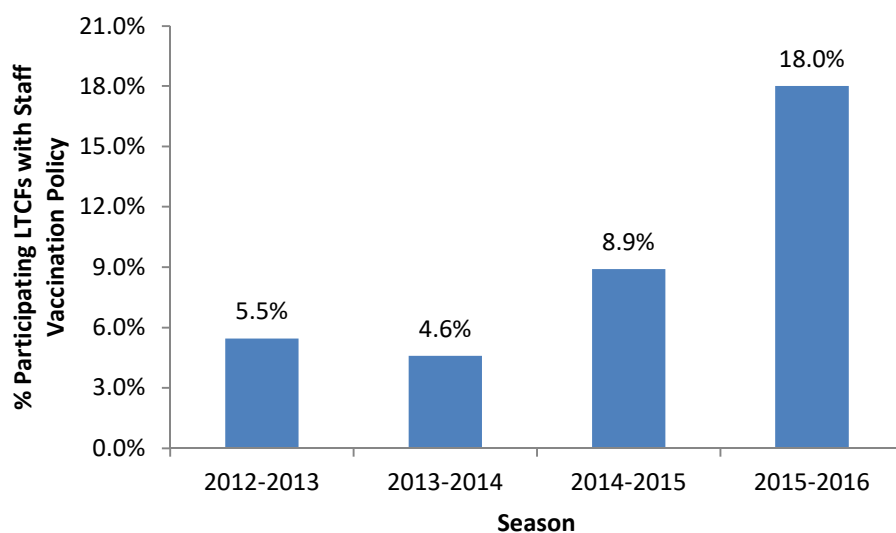


Figure 15 Percentage of LTCFs with a *Staff Vaccination Policy* by influenza season, Ireland (data based on the following number of participating LTCFs: 2011-2012 n=120; 2012-2013 n= 183; 2013-2014 n=131; 2014-2015 n=101; 2015-2016 n=100)

Feedback on vaccine uptake from influenza coordinators based in 27 LTCFs

A total of 27 influenza coordinators based in LTCFs raised issues of concern, 12 of whom commented on more than one issue. A third of all comments made concerned the difficulty in obtaining vaccine status details of staff. This was largely because management were not informed of these details or because the data was not available as vaccination had been performed outside of the LTCF (Table 3).

A separate single email was received from a hospital-based influenza coordinator started that sourcing supplies of vaccinations difficult with time lost while awaiting delivery.

Table 3 Observation and issues of concern highlighted by 27 LTCFs regarding staff and resident vaccine uptake, 2015-2016, Ireland

Issue/Concern	No. of Comments	% of Total Comments
Difficulty in obtaining uptake data on staff/management not informed/details with OH departments/GPs/Pharmacies	15	34
Difficulty in ascertaining vaccination of details of residents vaccinated in community	7	16
Staff are actively encouraged to get vaccinated	4	9
Vaccination should be considered mandatory	3	7
No staff are obliged to disclose information on their vaccination status/considered confidential	2	5
Residents are actively encouraged to get vaccinated	2	5
Limited resources available to collect information	1	2
Mismatch of vaccine and virus strain in 2015 made a significant impact on uptake this year	1	2
Peer vaccination clinics it has made it much easier to collate the data for staff uptake in the unit	1	2
Residents offered vaccination but some declined	3	7
Some staff reported as being allergic to vaccine	1	2
Staff continue to state that they once had a reaction to the vaccine and are reluctant to take it again.	1	2
Some residents did not get their vaccinations as they had been unwell or were receiving palliative care	1	2
Uncertain of the web based online survey technology and how to save inputted data as accurate data is collected	1	2
Very time consuming to accurately collate vaccination status information	1	2
Good weather has played a part in poor uptake	1	2
Total	44	100

Among the other issues that were frequently highlighted by LTCFs included the difficulty in ascertaining vaccination of details of residents vaccinated in the community and also that vaccination was optional for staff.

Discussion

Changes from previous annual reports

One of the key changes from previous reports on vaccine uptake in HCWs has been the decision to present results using averages. Rather than present overall uptake figures or selecting results from health care facilities that have consistently reported in each of the previous five seasons, averages were chosen instead. This is because averages automatically adjust for the number of reporting health care facilities each season. For this reason, comparison with results in previous published, seasonal reports is not recommended.

The level of participation among hospitals increased in 2015-2016 compared to the previous season. This resulted in a greater number of eligible and vaccinated HCWs being reported. Participation by hospitals however, is unlikely to increase further in subsequent seasonal surveys unless more private hospitals participate.

The average uptake among LTCFs recorded declined by 1.5% since the previous season, even though the level of participation was unchanged. Participation by LTCFs does have the potential to increase substantially in future given their considerably greater numbers compared to that of acute hospitals.

The average percentage uptake among hospital HCWs in 2015-2016 was highest in the publicly-funded, Acute Paediatric Services and Dublin Midlands hospital groups, similar to the previous season.

LTCFs located in CHOs 6 and 9 reported the highest average uptakes figures, but CHO 3 also recording a relatively high figure. The uptake in the latter CHO however, is based on returns from three LTCFs only, one of which had an uptake in excess of 90%.

In 2015-2016, the average uptake was highest among medical and dental staff and lowest in nursing staff in both hospitals and LTCFs, and consistent with a pattern observed over previous seasons. It would appear that the pattern of uptake among these particular professionals is not determined by their place of work.

In hospitals, uptake in 2015-2016 was highest where staff size number was ≥ 2000 HCWs and lowest where it was < 250 , a pattern that was observed in each of the previous four seasons. This pattern was not observed in LTCFs, however. One possible explanation for this is that larger hospitals with larger staff complements are more likely to have an occupational health department and/or a team of flu vaccine coordinators.

The percentage of participating hospitals with uptakes in excess of 40% increased over the course of five seasons, but a similar trend was not observed among LTCFs. Again, one possible reason for this is that large hospitals, unlike most LTCFs, have the advantage of having the resources available to maintain and to build on their previous uptake records.

Among the negative changes observed among LTCFs recorded in 2015-2016 compared to 2014-2015 have been the reductions since the beginning of each season in the average percentage uptake among long-stay residents, among pre-admitted respite residents and among respite residents vaccinated within in LTCFs. These reductions were relatively modest when compared to the

increases recorded in the earliest seasons, but would give rise to concern should they continue as a trend in future seasons.

Some positive changes were recorded however, in LTCF vaccination policies for example: the percentage of LTCFs reporting having a respite pre-admission vaccination policy or a staff vaccination policy in place increased between the last two seasons with both increases being part of a longer term trend.

The 2015-2016 results in reported uptake of seasonal influenza vaccination highlights that there are issues that have not yet been adequately addressed if uptake is to improve, as outlined in some of the comments made by influenza coordinators in LTCFs. Among the key issues is the low uptake by hospital nurses (the largest HCW component) of the vaccine, the unavailability of uptake status details to LTCF management because vaccination is optional and regarded as a confidential matter by HCW staff and/or because vaccination was obtained by staff elsewhere. Comments from hospital influenza coordinators were not sought in the survey and therefore it was not possible to identify the reasons why low uptake continues to be an issue in hospitals.

The average uptake reported in 2015-2016 among 50 hospitals (22.5%) and 98 LTCFs (26.6%) is well below the 40% national target set by HSE. Furthermore, only 14% of hospitals and 18.4% of LTCFs managed to meet this target this season. This also means that the 75% target goal for influenza vaccination coverage in all at-risk groups, including HCWs, as recommended by the European Council in December 2009, appears to be as remote as ever [1].

Of the influenza-related outbreaks in reported to the HPSC's Computerized Infectious Disease Reporting (CIDR) system between January and May of this year, 13 occurred in hospitals and 21 in LTCFs with 110 reported ill in hospitals and 218 in LTCFs; this compares to 17 similar outbreaks in hospitals and 72 in LTCFs in the same period in 2015 with 380 reported ill in hospitals and 1,069 in LTCFs. Given the modest increase in the average uptake observed in hospital HCWs and the reduction of 1.5% among HCWs in LTCFs, the sharp improvement in influenza-related outbreaks would suggest that it unlikely to be attributable to staff vaccine uptake.

Despite the different organisational structures observed in hospitals compared to LTCFs, it is noteworthy that apart from the 2011-2012 survey, average percentage uptake has been consistently higher in LTCFs than in hospitals. It is not clear why that should be so. Large hospitals are more likely to have their own occupational health departments to facilitate staff with on-site vaccination clinics whereas LTCFs are less likely to have such services readily available to them. The lack of staff and respite resident specific vaccination policies in place by most LTCFs, despite some improvement compared to previous seasons and the updating of national recommendations in September 2013, continues to be a cause for concern (2-4). (The hospital-based survey did not feature a question on staff vaccination policies, so this issue could not be explored). The absence of LTCF vaccination policies in place may reflect a chronic lack of awareness at senior management level about their worth in tackling infection control and reducing the risk of outbreaks and disease among their residents.

As outlined in the previous 2014-2015 annual report, a standard HSE vaccination policy is necessary to address low levels of staff vaccination, including the need to monitor staff vaccination uptake, and a requirement to report vaccination uptake among staff to management. It is clear from some of the responses provided by some LTCFs, for example, that such policies can be very challenging, if not

impossible to implement successfully. To put in place a system that regularly updates staff records with details of vaccination status, adopting declination forms or making vaccination a requirement of employment, requires considerable resources, particularly for a LTCF. For staff vaccination uptake to improve markedly, the implementation of such a policy requires the support of local management, but perhaps even more importantly, both management and staff should regard vaccination as more of vital infection control measure rather than a purely confidential matter so that there is a greater willingness by staff to disclose their vaccination status to management. To raise uptake levels significantly will require considerably more resources targeted at education and vaccination promotion to counter local misinformation and other obstacles, including access, that prevent achievement of this goal. The HSE's current position is that influenza vaccination is recommended for all staff, and therefore optional.

Uptake in other countries

In England vaccination uptake among those HCWs with direct patient contact is monitored (compared to Ireland where uptake among all HCWs is monitored). During the 2015-2016 season, influenza vaccine uptake among frontline HCWs was 50.6%, a decline of 4.3% from 54.9 % for the previous season (5).

Overall vaccination uptake levels among HCWs were reported by 15 member states as part of the European Union-funded Venice study in 2014-2015 (6). A wide range of results were reported with the highest uptake reported by England (54.9%), Wales (44.3%) and Scotland (36.2%) and the lowest in Poland (5%). Apart from Ireland, the only other member state that reported HCW uptake in LTCFs was Portugal with a similar (overall) uptake of 22% (6).

In the United States, the Centre for Disease Control analysed data from an internet panel survey of HCWs conducted from October 29–November 13, 2015. Early season 2015-2016 influenza vaccination coverage among HCWs was 66.7%, similar to the 64.3% coverage reported by early season 2014-2015. Vaccination coverage among HCWs was found to be highest in hospitals (83.9%) and lowest in LTCFs (52.4%). In the same study, influenza vaccination coverage was found to be higher among HCWs whose employers required (87.2%) or recommended (61.9%) vaccination compared to 39.4% of HCWs who did not (7).

Reports on uptake levels in the US (7) and from the UK (5, 6) among hospital HCWs clearly indicate that they are substantially higher generally than in Ireland. Furthermore, a policy of vaccination as a mandatory employment requirement in some health care institutions in the US (7) would appear to account for a marked difference with uptake levels reported in the UK where vaccination is currently only recommended for front-line HCWs (8) and also for HCWs generally in Ireland where the uptake levels are lower still. One comment from the current LTCF survey cited making vaccination mandatory.

Strengths and limitations of survey

Among the key strengths of the current survey was the fact that most publicly funded, acute hospitals continue to provide details of both eligible and vaccinated staff numbers. In addition, the number of participating hospitals that provided complete returns was 50 in 2015-2016 compared to 45 in the previous season. The number of LTCFs providing complete HCW uptake figures also increased from 91 to 98 in the current season and the number providing incomplete returns declined from 10 to three over the same period of time. The decision to present average percentage

uptakes in all subsequent surveys should allow comparisons across seasons (and annual reports) to be more readily made as this measure automatically adjusts for the different number of health care settings that provide returns each season.

A small number of hospitals ($n=3/50=6.0\%$) and LTCFs ($1/98=1.0\%$) units however, provided WTE details during the 2015-2016 season rather than *actual* numbers of staff (as requested in the circulated protocols), thereby potentially inflating reported uptake figures somewhat. Another weakness is how well the data provided by all occupational health departments (hospitals) and LTCF management in 2015-2016 accurately reflects uptake of HCWs employed in their units. Uptake may be underestimated especially if substantial numbers of HCWs are vaccinated outside the occupational health service by GPs and pharmacists. The extent to which this occurred is likely to be quite low as costs would be incurred by the HCWs themselves in these settings and because the vaccine is freely available to all HCWs. However, one of the key difficulties that some LTCFs reported was access to staff vaccination uptake details held by external occupational health departments.

Other issues that emerged during the course of the 2015/2016 season

One LTCF reported that peer vaccination clinics have made it much easier to collate the data for staff uptake in the unit. In contrast, another LTCF highlighted how time consuming it was to accurately collate vaccination status information generally. One hospital reporting via email cited the difficulty in sourcing supplies of vaccinations with time lost while awaiting delivery.

Apart from being regarded as a matter of personal choice and a confidential issue, a number of other reasons were given as to why some staff refused vaccination: some staff reported as being allergic to the seasonal vaccine and others questioned its effectiveness on foot of international reports during the 2014-2015 season (9, 10).

It was reported that some residents of LTCFs were not offered or declined vaccination as they were either unwell or were palliative patients and that resident uptake figures did not include such patients. To what extent this occurred and what impact it had on uptake of residents in LTCFs in 2015-2016 is not known. Another question perhaps that should be included in subsequent surveys.

Recommendations

Of the recommendations listed below, all have been made in the previous 2014-2015 seasonal reports:

- Identify reasons for variation in vaccination coverage across hospitals/facilities, health professionals and regions
- Explore the potential impact of a number of the following intervention strategies that may boost vaccination:
 - improve access to vaccination clinics through mobile units operating on-site, in the wards for all shifts etc.
 - increase the frequency of vaccination clinics both before and after the new year period of the flu season
 - improve knowledge and attitudes to vaccination
 - have timely reminders and introduce incentives
 - assign dedicated personnel to support the vaccination programme

- Resources are required at local, regional and national level to drive forward standard policies and practices if uptake targets are to be met.
- Identify key local personnel that need the time and resources to implement policies required to improve vaccination coverage among staff
- Encourage local leadership and strong and motivational communication messages
- Information-led promotion strategies should be designed on the basis that workplace context influences vaccine acceptance
- Highlight influenza vaccination as an infection control measure, and as a marker of quality and professional care
- Communicate to HCWs that vaccination should be regarded as integral to duty of care, as equally important as hand hygiene
- Address HCWs concerns regarding vaccination in relation to their living with carriers of chronic diseases, the presence of a medical history of specific chronic diseases (e.g., diabetes, chronic respiratory disease) or the perception of a lack of good health
- Identify cost effective solutions for collecting staff vaccination information at local level, but that each health care setting (Hospital or LTCF) be given adequate resources to build their own information systems which will facilitate reporting to HSE-HPSC
- An improved national IT solution with necessary staffing is needed to make reporting and analysis of data more efficient

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Appendices

Appendix 1.1 Hospital-based online survey form (see HPSC website (www.hpsc.ie) for pdf version of survey)

Appendix 1.2 LTCF-based online survey form (see HPSC website (www.hpsc.ie) for pdf version of survey)

Appendix 2.1 Seasonal Influenza Vaccine % Uptake in HCWs by Individual Hospital, 2015-2016, Ireland (n=52; 50 with complete staff vaccine uptake returns)

Hospital Group	HSE Area	Hospital	Total Eligible Staff	Total Staff Vaccinated	% Total Staff Vaccinated
Acute Paediatric Services	East	Children's University Hospital, Temple Street	1322	622	47.0
Acute Paediatric Services	East	Our Lady's Hospital for Sick Children, Crumlin	1945	548	28.2
Dublin Midlands (TCD)	East	Adelaide & Meath & National Children's Hospital, Tallaght	2917	1294	44.4
Dublin Midlands (TCD)	East	Coombe Women's Hospital	872	379	43.5
Dublin Midlands (TCD)	Midlands	Midland Regional Hospital Portlaoise	756	135	17.9
Dublin Midlands (TCD)	Midlands	Midland Regional Hospital Tullamore	1123	227	20.2
Dublin Midlands (TCD)	East	Naas General Hospital	685.14	189	27.6
Dublin Midlands (TCD)	East	St. James's Hospital	4551	1512	33.2
Dublin Midlands (TCD)	East	St. Luke's Hospital, Dublin	561	166	29.6
Dublin North East (RCSI)	East	Beaumont Hospital	3465	1550	44.7
Dublin North East (RCSI)	North-East	Cavan General Hospital	1026	145	14.1
Dublin North East (RCSI)	East	Connolly Hospital, Blanchardstown	1221	390	31.9
Dublin North East (RCSI)	North-East	Louth County Hospital, Dundalk	328	50	15.2
Dublin North East (RCSI)	North-East	Our Lady Of Lourdes Hospital, Drogheda	2019	316	15.7
Dublin North East (RCSI)	East	Rotunda Hospital	863	355	41.1
Ireland East (UCD)	East	Cappagh National Orthopaedic Hospital, Dublin	414	83	20.0
Ireland East (UCD)	East	Mater Misericordiae University Hospital	3204	831	25.9
Ireland East (UCD)	Midlands	Midland Regional Hospital Mullingar	969	193	19.9
Ireland East (UCD)	East	National Maternity Hospital, Holles Street	864	232	26.9
Ireland East (UCD)	North-East	Our Lady's Hospital, Navan	556	39	7.0
Ireland East (UCD)	East	Royal Victoria Eye & Ear Hospital, Dublin	310	93	30.0
Ireland East (UCD)	South-East	St. Luke's General Hospital, Kilkenny	1176	254	21.6
Ireland East (UCD)	East	St. Michael's Hospital, Dun Laoghaire	387.56	120	31.0
Ireland East (UCD)	East	St. Vincent's University Hospital	2372	960	40.5
Ireland East (UCD)	South-East	Wexford General Hospital	1065	177	16.6
Midwest (UL)	Mid-West	Mid-Western Regional Hospital Ennis	244	36	14.8
Midwest (UL)	Mid-West	Mid-Western Regional Hospital Nenagh	228	37	16.2
Midwest (UL)	Mid-West	Mid-Western Regional Hospital, Dooradoyle, Limerick	2602	488	18.8
Midwest (UL)	Mid-West	Mid-Western Regional Maternity Hospital, Limerick	369	34	9.2
Midwest (UL)	Mid-West	Mid-Western Regional Orthopaedic Hospital, Croom	177	20	11.3
Midwest (UL)	Mid-West	St. John's Hospital, Limerick	319	73	22.9
South/South West (UCC)	South	Bantry General Hospital	243.82	29	11.9
South/South West (UCC)	South	Cork University Hospital Group	4205	667	15.9
South/South West (UCC)	South	Kerry General Hospital, Tralee	1096	139	12.7
South/South West (UCC)	South-East	Lourdes Orthopaedic Hospital, Kilcreene, Kilkenny	87	6	6.9
South/South West (UCC)	South	Mallow General Hospital	257	65	25.3
South/South West (UCC)	South	South Infirmary - Victoria University Hospital, Cork	913	126	13.8
South/South West (UCC)	Mid-West	South Tipperary General Hospital, Clonmel	926	182	19.7
South/South West (UCC)	South-East	Waterford University Hospital)	2770	330	11.9
West/North West (Saolta UHC; NUIG)	West	Mayo General Hospital, Castlebar	1142	154	13.5
West/North West (Saolta UHC; NUIG)	West	Portiuncula Hospital, Ballinasloe	771	167	21.7
West/North West (Saolta UHC; NUIG)	West	Roscommon County Hospital	309	35	11.3
West/North West (Saolta UHC; NUIG)	North-West	Sligo General Hospital	1698	304	17.9
West/North West (Saolta UHC; NUIG)	West	University College Hospital Galway	3594	501	13.9
Other	East	Clontarf Hospital, Dublin	466	75	16.1
Other	North-East	Monaghan General Hospital	124	12	9.7
Other	East	National Rehabilitation Hospital, Dún Laoghaire, Co. Dublin	447	209	46.8
Private	South	Bon Secours Hospital, Tralee	487	94	19.3
Private	East	Hermitage Medical Clinic, Old Lucan Road, Dublin 20	484	122	25.2
Private	South-East	Aut Even Hospital, Freshford Road, Kilkenny	274	68	24.8
South/South West (UCC)	South	Mercy University Hospital, Cork	na	440	na
Ireland East (UCD)	East	St. Columcille's Hospital, Loughlinstown*	447	95	21.3

na=not available/data not reported; * overall uptake figure reported only without a breakdown by individual HSE category of staff
See <http://www.nehb.ie/eng/about/Who/acute/hospitalgroups.html> for description of hospital groups

Appendix 2.2 Seasonal Influenza Vaccine % Uptake in HCWs by Individual Hospital and Season, Ireland (with complete staff vaccine uptake returns)

Hospital Group	HSE Area	Hospital	2015-2016	2014-2015	2013-2014	2012-2013	2011-2012
Acute Paediatric Services	HSE-E	Children's University Hospital, Temple Street	47.0	36.7	43.4	25.5	31.6
Acute Paediatric Services	HSE-E	Our Lady's Hospital for Sick Children, Crumlin	28.2	22.0	19.2	21.5	23.9
Dublin Midlands (TCD)	HSE-E	Adelaide & Meath & National Children's Hospital, Tallaght	44.4	31.9	20.7	15.6	13.2
Dublin Midlands (TCD)	HSE-E	Coombe Women's Hospital	43.5	41.7	28.6	12.9	16.2
Dublin Midlands (TCD)	HSE-M	Midland Regional Hospital Portlaoise	17.9	15.4	11.7	20.7	11.5
Dublin Midlands (TCD)	HSE-M	Midland Regional Hospital Tullamore	20.2	17.7	16.9	15.3	14.9
Dublin Midlands (TCD)	HSE-E	Naas General Hospital	27.6	41.1	23.8		29.1
Dublin Midlands (TCD)	HSE-E	St Luke's Hospital, Dublin	29.6	34.6	31.1		26.9
Dublin Midlands (TCD)	HSE-E	St. James's Hospital	33.2	32.1	32.2	30.5	21.4
Dublin North East (RCSI)	HSE-E	Beaumont Hospital	44.7	43.8	45.9	38.8	29.7
Dublin North East (RCSI)	HSE-NE	Cavan General Hospital	14.1		17.3	8.3	21.0
Dublin North East (RCSI)	HSE-E	Connolly Hospital, Blanchardstown	31.9	30.4	30.6	17.8	20.1
Dublin North East (RCSI)	HSE-NE	Louth County Hospital, Dundalk	15.2	3.8			40.0
Dublin North East (RCSI)	HSE-NE	Our Lady Of Lourdes Hospital, Drogheda	15.7	1.4			12.7
Dublin North East (RCSI)	HSE-E	Rotunda Hospital	41.1	35.0	32.5		39.2
Ireland East (UCD)	HSE-E	Cappagh National Orthopaedic Hospital, Dublin	20.0	19.8	24.9	16.9	16.7
Ireland East (UCD)	HSE-E	Mater Misericordiae University Hospital	25.9		30.4		23.0
Ireland East (UCD)	HSE-M	Midland Regional Hospital Mullingar	19.9	22.1	18.1	23.1	16.5
Ireland East (UCD)	HSE-E	National Maternity Hospital, Holles Street	26.9	23.3	28.0		14.0
Ireland East (UCD)	HSE-NE	Our Lady's Hospital, Navan	7.0	1.8			31.7
Ireland East (UCD)	HSE-E	Royal Victoria Eye & Ear Hospital, Dublin	30.0	27.2	21.1		24.6
Ireland East (UCD)	HSE-E	St Columcille's Hospital, Loughlinstown		28.8	30.2	28.4	
Ireland East (UCD)	HSE-E	St Michael's Hospital, Dun Laoghaire	31.0	33.4	32.1	32.4	33.8
Ireland East (UCD)	HSE-E	St Vincent's University Hospital	40.5	37.7	37.9	21.1	23.5
Ireland East (UCD)	HSE-SE	St. Luke's General Hospital, Kilkenny	21.6	12.8	15.6	9.5	10.6
Ireland East (UCD)	HSE-SE	Wexford General Hospital	16.6	12.1		5.9	6.8
Midwest (UL)	HSE-MW	Mid-Western Regional Hospital Ennis	14.8		7.6		
Midwest (UL)	HSE-MW	Mid-Western Regional Hospital Nenagh	16.2		5.3		
Midwest (UL)	HSE-MW	Mid-Western Regional Hospital, Dooradoyle, Limerick	18.8		14.6		
Midwest (UL)	HSE-MW	Mid-Western Regional Maternity Hospital, Limerick	9.2		5.4		
Midwest (UL)	HSE-MW	Mid-Western Regional Orthopaedic Hospital, Croom	11.3		11.3		
Midwest (UL)	HSE-MW	St John's Hospital, Limerick	22.9	17.9	25.6		
South/South West (UCC)	HSE-S	Bantry General Hospital	11.9	11.8	6.2	8.8	5.1
South/South West (UCC)	HSE-S	Cork University Hospital Group	15.9	16.4	19.6	13.5	
South/South West (UCC)	HSE-S	Kerry General Hospital, Tralee	12.7	9.7	13.3	8.9	7.0
South/South West (UCC)	HSE-SE	Lourdes Orthopaedic Hospital, Kilcreene, Kilkenny	6.9	1.1	2.6	3.5	
South/South West (UCC)	HSE-S	Mallow General Hospital	25.3		14.8	10.5	
South/South West (UCC)	HSE-S	Mercy University Hospital, Cork				11.5	10.4
South/South West (UCC)	HSE-S	South Infirmary - Victoria University Hospital, Cork	13.8	14.1	16.3	11.0	15.3
South/South West (UCC)	HSE-SE	South Tipperary General Hospital, Clonmel	19.7	15.9		8.1	9.4
South/South West (UCC)	HSE-SE	Waterford University Hospital	11.9	9.2		8.5	9.2
West/North West (Saolta UHC; NUIG)	HSE-NW	Letterkenny General Hospital		20.1	15.1	9.6	10.8
West/North West (Saolta UHC; NUIG)	HSE-W	Mayo General Hospital, Castlebar	13.5	22.2	15.7	7.7	5.0
West/North West (Saolta UHC; NUIG)	HSE-W	Portiuncula Hospital, Ballinasloe	21.7	21.3	18.1	20.2	20.4
West/North West (Saolta UHC; NUIG)	HSE-W	Roscommon County Hospital	11.3	13.9	17.7	7.4	
West/North West (Saolta UHC; NUIG)	HSE-NW	Sligo General Hospital	17.9	14.9	17.3		
West/North West (Saolta UHC; NUIG)	HSE-W	University College Hospital Galway	13.9	14.9	16.1	10.1	11.4

Appendix 2.2 continued Seasonal Influenza Vaccine % Uptake by Individual Hospital and Season, Ireland (with complete staff vaccine uptake returns)

Hospital Group	HSE Area	Hospital	2015-2016	2014-2015	2013-2014	2012-2013	2011-2012
Other	HSE-E	Clontarf Hospital, Dublin	16.1	20.7	22.7		22.0
Other	HSE-NE	Monaghan General Hospital	9.7		12.2	5.3	30.0
Other	HSE-E	National Rehabilitation Hospital, Dún Laoghaire, Co. Dublin	46.8	47.5			
Private	HSE-SE	Aut Even Hospital, Freshford Road, Kilkenny	24.8	36.9	37.3		
Private	HSE-W	Bon Secours Hospital, Renmore, Galway			20.3		
Private	HSE-S	Bon Secours Hospital, Tralee	19.3				
Private	HSE-E	Hermitage Medical Clinic, Old Lucan Road, Dublin 20	25.2	25.8	27.9		
Private	HSE-E	Mater Private Hospital			33.4		
NA	HSE-SE	Our Lady's Hospital, Cashel		5.9		7.9	
NA	HSE-SE	Sacred Heart Hospital, Carlow					10.7
NA	HSE-SE	St. Canice's Hospital, Kilkenny		3.8		5.3	8.8
NA	HSE-SE	St. Columba's Hospital, Thomastown, Kilkenny					4.0
NA	HSE-SE	St. Dymphna's Hospital, Carlow		7.7		7.8	7.2

See <http://www.nehb.ie/eng/about/Who/acute/hospitalgroups.html> for description of hospital groups

NA=not applicable/not acute hospital

Appendix 3.1 Seasonal Influenza Vaccine Uptake in Hospitals by Hospital Group, 2015-2016, Ireland (n=50 hospitals with complete staff vaccine uptake returns)

Hospital Group	Total Eligible Staff	Total Staff Vaccinated	% Total Staff Vaccinated (OVERALL)	Number of Hospitals
Acute Paediatric Services	3267	1170	35.8	2
Dublin Midlands (TCD)	11465.14	3902	34.0	7
Dublin North East (RCSI)	8922	2806	31.5	6
Ireland East (UCD)	11317.56	2982	26.3	10
Midwest (UL)	3939	688	17.5	6
South/South West (UCC)	10497.82	1544	14.7	8
West/North West (Saoita UHC; NUIG)	7514	1161	15.5	5
Other	1037	296	28.5	3
Private	1245	284	22.8	3
Total (50 hospitals)*	59204.52	14833	25.1	50

* Total excludes uptake figures from Mercy University Hospital, Cork and St. Columcille's Hospital, Loughlinstown

See <http://www.nehb.ie/eng/about/Who/acute/hospitalgroups.html> for description of hospital groups

Appendix 3.2 Seasonal Influenza Vaccine Uptake in Hospitals by CHO, 2015-2016, Ireland (n=50 hospitals with complete staff vaccine uptake returns)

Community Health Organisation (CHO) Area	Total Eligible Staff	Total Staff Vaccinated	% Total Staff Vaccinated (OVERALL)	Number of Hospitals
Area 1: Donegal; Sligo/Leitrim/West Cavan; Cavan/Monaghan	3267	1170	35.8	2
Area 2: Galway; Roscommon; Mayo	11465.14	3902	34.0	7
Area 3: Clare; Limerick; North Tipperary/East Limerick	8922	2806	31.5	6
Area 4: Kerry; North Cork; North Lee; South Lee; West Cork	11317.56	2982	26.3	10
Area 5: South Tipperary; Carlow/Kilkenny; Waterford; Wexford	3939	688	17.5	6
Area 6: Wicklow; Dun Laoghaire; Dublin South East	10497.82	1544	14.7	8
Area 7: Kildare/West Wicklow; Dublin West; Dublin South City; Dublin South West	7514	1161	15.5	5
Area 8: Laois/Offaly; Longford/Westmeath; Louth/Meath	1037	296	28.5	3
Area 9: Dublin North; Dublin North Central; Dublin North West	1245	284	22.8	3
Total (50 Hospitals)*	59204.52	14833	25.1	50

Total excludes uptake figures from Mercy University Hospital, Cork and St. Columcille's Hospital, Loughlinstown

Appendix 3.3 Seasonal Influenza Vaccine Uptake in Hospitals by HSE Area, 2015-2016, Ireland (n=50 hospitals with complete staff vaccine uptake returns)

HSE Area	Total Eligible Staff	Total Staff Vaccinated	% Total Staff Vaccinated (OVERALL)	Number of Hospitals
East	27350.7	9730	35.6	19
Midlands	2848	555	19.5	3
Mid-West	4865	870	17.9	7
North-East	4053	562	13.9	5
North-West	1698	304	17.9	1
South	7201.82	1120	15.6	6
South-East	5372	835	15.5	5
West	5816	857	14.7	4
Total (50 hospitals)*	59204.52	14833	25.1	50

*Total excludes uptake figures from Mercy Hospital (incomplete) and Cavan/Monaghan Hospitals (aggregate reported figures only)

Appendix 4 Seasonal Influenza Vaccine Uptake in Hospitals by HSE Staff Grade Category, 2015-2016, Ireland (n=50 hospitals with complete staff vaccine uptake returns)

HSE Category of Staff	Total Eligible Staff	Total Staff Vaccinated	% Total Staff Vaccinated (OVERALL)
General Support Staff	6933.65	1780	25.7
Health & Social Care Professionals	7621.24	2281	29.9
Management & Administration	9020.89	2218	24.6
Medical & Dental	7562.43	3087	40.8
Nursing	23741.33	4457	18.8
Other Patient & Client Care	4324.98	1010	23.4
Total (50 hospitals)	59204.52	14833	25.1

*Total excludes uptake figures from Mercy Hospital (incomplete) and Cavan/Monaghan Hospitals (aggregate reported figures only)

Appendix 5.1 Seasonal Influenza Vaccine Uptake in HCWs by Individual LTCF, 2015-2016, Ireland (n=101, 98 with complete staff vaccine uptake returns)

CHO	HSE Area	Long Term Care facility	Total Eligible Staff	Total Staff Vaccinated	% Total Staff Vaccinated
1	HSE-NW	Arus Breffni, Manorhamilton, Co. Leitrim	75	14	18.7
1	HSE-NE	Ballyconnel Community Services, Ballyconnel, Co. Cavan	67	9	13.4
1	HSE-NE	Blackwater House, St. Davnet's Hospital, Rooskey, Co. Mongahan	47	5	10.6
1	HSE-NW	Carndonagh Community Hospital, Caradonagh, Co. Donegal	97	25	25.8
1	HSE-NW	Carndonagh Supervised Residential Unit, Co. Donegal	15	7	46.7
1	HSE-NE	Cavan/Monaghan Disability Services, Cavan, Cavan town, Co. Cavan	211	13	6.2
1	HSE-NW	Clara House Resource Centre, Rushine Road, Killybegs, Co. Donegal	12	8	66.7
1	HSE-NW	Cleary House Supervised Residential Unit, Mental Health Services, Letterkenny, Co. Donegal	10	5	50.0
1	HSE-NW	Falcarragh Community Hospital, Falcarragh, Co. Donegal	45	17	37.8
1	HSE-NW	Killybegs Community Hospital, Killybegs, Co. Donegal	58	7	12.1
1	HSE-NW	Lifford Community Hospital, Lifford, Co. Donegal	35	12	34.3
1	HSE-NE	Lisdarn Unit for the Elderly, Cavan, Co. Cavan	53	9	17.0
1	HSE-NW	Park House Supervised Residential Unit, Dungloe, Co. Donegal	12	2	16.7
1	HSE-NW	Radharc na Sléibhte, Supervised Residential Unit, Convent Road, Carndonagh, Co. Donegal	31	4	12.9
1	HSE-NW	Ramelton Community Nursing Unit, Ramelton, Co. Donegal	40	9	22.5
1	HSE-NW	Rowanfield House Supervised Residential Unit, Donegal Town, Co. Donegal	15	7	46.7
1	HSE-NW	Shiel Community Hospital, College Street, Ballyshannon, Co. Donegal	69	17	24.6
1	HSE-NW	St. Joseph's Community Hospital, Stranorlar, Co. Donegal	185	48	25.9
1	HSE-NE	Sullivan Memorial Home, Cavan, Co. Cavan	32	7	21.9
1	HSE-NE	Virginia Community Services, Virginia, Co. Cavan	54	17	31.5
2	HSE-W	An Coillín, Westport Road, Castlebar, Co. Mayo	104	44	42.3
2	HSE-W	Aras Mac Dara, Carraroe, Co. Galway	69	13	18.8
2	HSE-W	Aras Mhuire Community Nursing Unit, Tuam, Co. Galway	42	9	21.4
2	HSE-W	Belmullet District Hospital (including Aras Deirbhile), Belmullet, Co. Mayo	74	19	25.7
2	HSE-W	Dalton Community Nursing Unit, Claremorris, Co. Mayo	47	8	17.0
2	HSE-W	McBride Community Unit, Westport, Co. Mayo	39	1	2.6
2	HSE-W	Sacred Heart Hospital, Golf Links Road, Roscommon, Co. Roscommon	216	12	5.6
2	HSE-W	St. Anne's Community Nursing Home, Clifden, Co. Galway	33	3	9.1
2	HSE-W	St. Augustine's Community Nursing Unit, Ballina, Co. Mayo	41	4	9.8
2	HSE-W	St. Brendan's Home, Loughrea, Co. Galway	104	55	52.9
2	HSE-W	St. Fionnan's Community Nursing Unit, Achill Island, Co. Mayo	33	0	0.0
3	HSE-MW	Ennistymon Community Nursing Unit, Ennistymon, Co. Clare	37	11	29.7
3	HSE-MW	Regina House Community Nursing Unit, Kirush, Co. Clare	41	37	90.2
3	HSE-MW	St. Camillus' Community Hospital, Limerick, Co. Limerick	131	16	12.2
4	HSE-S	Ballincollig Community Nursing Unit, Ballincollig, Co. Cork	151	55	36.4
4	HSE-S	Bantry General Hospital, Bantry, Co. Cork	42	4	9.5
4	HSE-S	Caherciveen Community Hospital, Caherciveen, Co. Kerry	53	2	3.8
4	HSE-S	Castletownbere Community Hospital (St. Joseph's), Castletownbere, Co. Cork	46	0	0.0
4	HSE-S	Clonakilty Community Hospital and Long Stay Unit (Mount Carmel Home and Hospital), Clonakilty, Co. Cork	164	38	23.2
4	HSE-S	Cluain Fhionnain Intellectual Disability Unit, Ballydribeen, Killarney, Co. Kerry	42	0	0.0

Appendix 5.1 continued Seasonal Influenza Vaccine Uptake in HCWs by Individual LTCF, 2015-2016, Ireland (n=101, 98 with complete staff vaccine uptake returns)

CHO	HSE Area	Long Term Care facility	Total Eligible Staff	Total Staff Vaccinated	% Total Staff Vaccinated
4	HSE-S	Cobh Community Hospital, Cobh, Co. Cork	96	48	50.0
4	HSE-S	Dunamanway Community Hospital (St. Anthony's), Dunmanway, Co. Cork	40	0	0.0
4	HSE-S	Gougane Barra House, Western Road, Cork	11	1	9.1
4	HSE-S	Heather House, Buttevant, Co. Cork	69	18	26.1
4	HSE-S	Kenmare Community Hospital, Kenmare, Co. Kerry	29	8	27.6
4	HSE-S	Kinsale Community Hospital, Kinsale, Co. Cork	57	13	22.8
4	HSE-S	Listowel Community Hospital, Listowel, Co. Kerry	49	12	24.5
4	HSE-S	Macroom Community Hospital, Macroom, Co. Cork	42	6	14.3
4	HSE-S	Millfield house, Sunbeam Industrial Estate, Old Mallow Road, Blackpool, Cork	12	1	8.3
4	HSE-S	Mount Alvernia Hospital, Mallow, Co. Cork	65	14	21.5
4	HSE-SE	North Cork Mental Health Services, St. Stephens Hospital, Glanmire, Cork, Cork City	167	5	3.0
4	HSE-S	Owenacurra Centre, Midleton, Cork	25	2	8.0
4	HSE-S	St. Colmans House, Hospital Grounds, Macroom, Co. Cork	11	11	100.0
4	HSE-S	St. Finbarr's Hospital, Cork, Co. Cork	244.64	121	49.5
4	HSE-S	St. Patrick's Community Hospital, Fermoy, Co. Cork	94	11	11.7
4	HSE-S	West Kerry Community Hospital, Dingle, Co. Kerry	54	9	16.7
4	HSE-S	Youghal Community Hospital, Youghal, Co. Cork	58	13	22.4
5	HSE-SE	Dungarvan Community Hospital - incorporating St. Josephs Hospital and Dungarvan District Hospital (St. Vincent's), Dungarvan, Co. Waterford	152	38	25.0
5	HSE-SE	Sacred Heart Hospital, Old Dublin Road, Carlow, Co. Carlow	100	4	4.0
5	HSE-SE	St. Otteran's Psychiatric Hospital, John's Hill, Waterford City, Co. Waterford	205	10	4.9
5	HSE-SE	St. Patrick's Hospital, Cashel, Co. Tipperary	153	51	33.3
5	HSE-SE	St. Patrick's Hospital, John's Hill, Waterford, Co. Waterford	114	10	8.8
6	HSE-E	Children's Sunshine Home, Leopardstown Road, Dublin 18	65	25	38.5
6	HSE-E	Dalkey Community Unit, Dalkey, Co. Dublin	106	36	34.0
6	HSE-E	Leopardstown Park Hospital, Dublin 18	237	114	48.1
6	HSE-E	St. Colman's Hospital, Rathdrum, Rathdrum, Co. Wicklow	134	17	12.7
7	HSE-E	Belvilla Community Unit for Older Persons, Dublin 8	122	19	15.6
7	HSE-E	Cherry Orchard Hospital, Dublin 10	389	114	29.3
7	HSE-E	Muiriosa Foundation, Moore Abbey, Monasterevin, Co. Kildare (Sth. Kildare Services)	329	58	17.6
7	HSE-E	Oghill Nursing Home, Oghill, Monasterevin, Co. Kildare	30	17	56.7
7	HSE-E	Our Lady's Hospice, Dublin 6W	541	172	31.8
7	HSE-E	St. Louise's, Glenmaroon, Chapelizod	107	30	28.0
7	HSE-E	St. Vincent's Hospital, Athy, Co. Kildare	171	38	22.2
7	HSE-E	The Marley Nursing Home, Kellystown Road, Rathfarnham, Dublin 16	102	35	34.3
8	HSE-NE	Beaufort House, Navan Community Health Unit, Athboy Road, Navan, Co. Meath	65	9	13.8
8	HSE-M	Birr Community Nursing Unit, Birr, Co. Offaly	104	18	17.3
8	HSE-NE	Boyne View House, Drogheda, Co. Louth	31	9	29.0
8	HSE-NE	Cottage Hospital, Drogheda, Co. Louth	44	12	27.3
8	HSE-NE	Ivy House, Proudstown Road, Navan, Co. Meath	16	3	18.8
8	HSE-M	Riada House Community Unit, Tullamore, Co. Offaly	89	3	3.4

Appendix 5.1 continued Seasonal Influenza Vaccine Uptake in HCWs by Individual LTCF, 2015-2016, Ireland (n=101, 98 with complete staff vaccine uptake returns)

CHO	HSE Area	Long Term Care facility	Total Eligible Staff	Total Staff Vaccinated	% Total Staff Vaccinated
8	HSE-M	St. Brigid's Hospital, Shaen, Portlaoise, Co. Laois	48	10	20.8
8	HSE-M	St. Joseph's Care Centre, Longford, Co. Longford	154	26	16.9
8	HSE-NE	St. Joseph's Hospital, Ardee, Ardee, Co. Louth	37	10	27.0
8	HSE-NE	St. Joseph's Hospital, Trim, Trim, Co. Meath	149	34	22.8
8	HSE-NE	St. Mary's Hospital, Drogheda, Drogheda, Co. Louth	46	14	30.4
8	HSE-M	St. Mary's Hospital, Mullingar (now called Cluain Lir Community Nursing Unit), Mullingar, Co. Westmeath	95	32	33.7
8	HSE-M	St. Vincent's Care Centre, Athlone, Co. Westmeath	90	15	16.7
8	HSE-M	St. Vincent's Hospital, Mountmellick, Co. Laois	180	58	32.2
9	HSE-E	Connolly Hospital (Silver Birch & Woodland Units), Dublin 15	45	9	20.0
9	HSE-E	Connolly Hospital (Sycamore Psychiatry of Old Age Unit), Dublin 15	29	9	31.0
9	HSE-E	Lusk Community Unit, Lusk, Co. Dublin	66	47	71.2
9	HSE-E	Raheny Community Nursing Unit, Dublin 9	96	52	54.2
9	HSE-E	Seanchara Community Unit, Dublin 11	42	26	61.9
9	HSE-E	St. Clare's Home, Glasnevin, Dublin 9	47	25	53.2
9	HSE-E	St. Joseph's Centre, Daughters of Charity, Grange Road, Dublin 15	266	66	24.8
9	HSE-E	St. Mary's Hospital, Phoenix Park, Dublin 20	461	114	24.7
9	HSE-E	St. Rosalie's, Convent Lane, Portmarnock, Co. Dublin	26	23	88.5
9	HSE-E	St. Vincent's Centre, Navan Road, Dublin 7	276	142	51.4
2	HSE-W	Teach Aisling, Westport Road, Castlebar, Co. Mayo	na	na	na
2	HSE-W	Sacred Heart Hospital, Castlebar, Co. Mayo	na	na	na
6	HSE-E	The Royal Hospital, Dublin 4	na	na	29

na=not available/data not reported

Appendix 5.2 Seasonal Influenza Vaccine % Uptake in HCWs by Individual LTCFs and Season, Ireland (with complete staff vaccine uptake returns)

CHO	HSE Area	Name of Public Residential Care Unit	2015-2016	2014-2015	2013-2014	2012-2013	2011-2012
1	North-West	Arus Breffni, Manorhamilton, Co. Leitrim	18.7		62.5	17.4	
1	North-West	Arus Carolan, Mohill, Co. Leitrim			1.6	8.8	4.3
1	North-East	Ballyconnel Community Services, Ballyconnel, Co. Cavan	13.4				
1	North-West	Ballydevitt Group Home, Donegal Town, Co. Donegal			100.0		0.0
1	North-West	Ballymacool Respite House, Letterkenny, Co. Donegal					0.0
1	North-East	Blackwater House, St. Davnet's Hospital, Rooskey, Co. Mongahan	10.6			1.9	
1	North-West	Buncrana Community Nursing Unit, Buncrana, Co. Donegal		25.9		10.9	
1	North-West	Carndonagh Community Hospital, Caradonagh, Co. Donegal	25.8	43.1		9.3	9.3
1	North-West	Carndonagh JCM Residential Unit, Co. Donegal					
1	North-West	Carndonagh Supervised Residential Unit, Co. Donegal	46.7				
1	North-East	Cavan/Monaghan Disability Services, Cavan, Cavan town, Co. Cavan	6.2		14.5		
1	North-West	Cill Aoibhinn Group Home, Donegal Town, Co. Donegal		37.5	10.0		6.7
1	North-West	Clara House Resource Centre, Rushine Road, Killybegs, Co. Donegal	66.7		0.0		
1	North-West	Cleary House Supervised Residential Unit, Mental Health Services, Letterkenny, Co. Donegal	50.0			20.0	12.5
1	North-West	Cloonamahon Community Group Homes, Collooney, Co. Sligo				4.9	
1	North-West	Cloonamahon Learning Disability Services, Collooney, Co. Sligo				10.3	13.6
1	North-West	Donegal Hospice Knocknamona, Letterkenny, Co. Donegal			19.5		
1	North-West	Donegal Town Community Hospital, Donegal, Co. Donegal				13.2	
1	North-West	Dungloe Community Hospital, Dungloe, Co. Donegal			48.2	46.9	34.7
1	North-West	Falcarragh Community Hospital, Falcarragh, Co. Donegal	37.8		49.0	14.3	90.4
1	North-West	HSE Sligo Community Group Homes, Co. Sligo					
1	North-West	HSE Tubbercurry Community Group Homes, Tubbercurry, Co. Sligo					
1	North-West	Inbhear na Mara Residential Unit, Bundoran, Co. Donegal			19.0	0.0	0.0
1	North-West	Killybegs Community Hospital, Killybegs, Co. Donegal	12.1	17.9	33.3		
1	North-West	Lifford Community Hospital, Lifford, Co. Donegal	34.3		31.4	22.9	
1	North-East	Lisdarn Unit for the Elderly, Cavan, Co. Cavan	17.0				44.9
1	North-East	Oriel House, Monaghan, Co. Monaghan		0.0		13.6	0.0
1	North-West	Our Lady's Hospital, Manorhamilton, Co. Leitrim			26.3	0.0	
1	North-West	Park House Supervised Residential Unit, Dungloe, Co. Donegal	16.7	27.3		14.3	
1	North-West	Radharc na Sléibhte, Supervised Residential Unit, Convent Road, Carndonagh, Co. Donegal	12.9	26.7			
1	North-West	Ramelton Community Nursing Unit, Ramelton, Co. Donegal	22.5	14.0	27.5	37.0	2.3
1	North-West	Rock Community Nursing Unit, Ballyshannon, Co. Donegal			29.0	6.7	3.0
1	North-West	Rowanfield House Supervised Residential Unit, Donegal Town, Co. Donegal	46.7	23.5	16.2	7.7	
1	North-West	Sean O'Hare Unit & Associated (Learning Disability) Services, Stranorlar, Co. Donegal					
1	North-West	Shiel Community Hospital, College Street, Ballyshannon, Co. Donegal	24.6	41.9	30.6	15.4	
1	North-West	St. John's Community Hospital, Ballyrivnan, Co. Sligo				3.1	4.4
1	North-West	St. Joseph's Community Hospital, Stranorlar, Co. Donegal	25.9	29.6	11.0	3.8	
1	North-East	St. Mary's Hospital, Castleblaney, Monaghan, Co. Monaghan					
1	North-West	St. Patrick's Community Hospital, Carrick on Shannon, Co. Leitrim			25.5	13.7	10.3

Appendix 5.2 continued Seasonal Influenza Vaccine % Uptake in HCWs by Individual LTCFs and Season, Ireland (with complete staff vaccine uptake returns)

CHO	HSE Area	Name of Public Residential Care Unit	2015-2016	2014-2015	2013-2014	2012-2013	2011-2012
1	North-East	Sullivan Memorial Home, Cavan, Co. Cavan	21.9		29.2	3.6	17.2
1	North-East	Virginia Community Services, Virginia, Co. Cavan	31.5				3.8
1	North-West	Wisdom Services Cregg House Group Homes, Co. Sligo					
1	North-West	Wisdom Services Cregg House, Co. Sligo					
2	West	Adult Mental Health Unit, Mayo General Hospital, Castlebar, Co. Mayo					
2	West	An Coillín, Westport Road, Castlebar, Co. Mayo	42.3				
2	West	Aras Attracta Intellectual Disability Services, Swinford, Co. Mayo					
2	West	Aras Mac Dara, Carraroe, Co. Galway	18.8	19.4	34.4	4.9	
2	West	Aras Mathair Pol Community Nursing Unit, Castlerea, Co. Roscommon				8.8	
2	West	Aras Mhuire Community Nursing Unit, Tuam, Co. Galway	21.4	19.2	25.9	18.5	28.6
2	West	Aras Ronan, Aran Islands, Co. Galway			59.1	76.0	84.0
2	West	Belmullet District Hospital (including Aras Deirbhile), Belmullet, Co. Mayo	25.7	40.5	14.6	7.7	0.0
2	West	Clifden District Hospital, Clifden, Co. Galway			13.2	0.0	0.0
2	West	Dalton Community Nursing Unit, Claremorris, Co. Mayo	17.0	33.3	24.2	2.2	
2	West	McBride Community Unit, Westport, Co. Mayo	2.6				4.9
2	West	Plunkett Community Nursing Unit, Boyle, Co. Roscommon			4.7	2.3	0.0
2	West	Roscommon Mental Health Service, Aras Naomh Chaolain, Knock Road, Castlerea, Co. Roscommon				30.8	
2	West	Sacred Heart Hospital, Castlebar, Co. Mayo			0.6	2.4	2.1
2	West	Sacred Heart Hospital, Golf Links Road, Roscommon, Co. Roscommon	5.6				
2	North-West	Saimer View Community Group Home, Dunmuckrim, Ballyshannon, Co. Donegal			100.0	33.3	
2	West	St. Anne's Community Nursing Home, Clifden, Co. Galway	9.1	21.9	6.8	15.2	0.0
2	West	St. Anne's Unit, Sacred Heart Hospital, Castlebar, Co. Mayo					
2	West	St. Augustine's Community Nursing Unit, Ballina, Co. Mayo	9.8			0.0	
2	West	St. Brendan's Home, Loughrea, Co. Galway	52.9	22.7	17.5	18.7	
2	West	St. Fionnan's Community Nursing Unit, Achill Island, Co. Mayo	0.0	3.2			56.1
2	West	Swinford District Hospital, Swinford, Co. Mayo				0.0	4.5
2	West	Swinford Treatment Centre, The Lodge, Dublin Road, Swinford, Co. Mayo				66.7	
2	West	Teach Aisling, Westport Road, Castlebar, Co. Mayo					
2	West	Units 5 and 6 - Merlin Park Hospital, Galway, Co. Galway					
3	Mid-West	Dean Maxwell Community Nursing Unit, Roscrea, Co. Tipperary		22.5	4.9	21.1	20.5
3	Mid-West	Ennistymon Community Nursing Unit, Ennistymon, Co. Clare	29.7	40.0	27.4	22.9	
3	Mid-West	Hospital of the Assumption, Thurles, Co. Tipperary			21.2	12.7	
3	Mid-West	Raheen Community Nursing Unit, Scariff, Co. Clare				0.0	0.0
3	Mid-West	Regina House Community Nursing Unit, Kirush, Co. Clare	90.2	77.1	80.0	29.3	25.0
3	Mid-West	St. Camillus' Community Hospital, Limerick, Co. Limerick	12.2				
3	Mid-West	St. Conlon's Community Nursing Unit, Nenagh, Co. Tipperary				13.9	9.7

Appendix 5.2 continued Seasonal Influenza Vaccine % Uptake in HCWs by Individual LTCFs and Season, Ireland (with complete staff vaccine uptake returns)

CHO	HSE Area	Name of Public Residential Care Unit	2015-2016	2014-2015	2013-2014	2012-2013	2011-2012
3	Mid-West	St. Ita's Community Hospital, Newcastle West, Co. Limerick			32.7	17.3	
3	Mid-West	St. Joseph's Community Hospital, Ennis, Co. Clare				8.5	
3	Mid-West	St. Vincent's Centre, Daughters of Charity Disability Support Services, Lisnagry, Limerick		15.8			
4	South	Ballincollig Community Nursing Unit, Ballincollig, Co. Cork	36.4	26.1	23.1	4.8	
4	South	Bandon Community Hospital, Bandon, Co. Cork			2.5	2.9	
4	South	Bantry General Hospital, Bantry, Co. Cork	9.5		0.0	0.0	
4	South	Caherciveen Community Hospital, Caherciveen, Co. Kerry	3.8	1.8	1.6	0.0	
4	South	Castletownbere Community Hospital (St. Joseph's), Castletownbere, Co. Cork	0.0	0.0	8.3		0.0
4	South	Clonakilty Community Hospital and Long Stay Unit (Mount Carmel Home and Hospital), Clonakilty, Co. Cork	23.2		8.5		
4	South	Cluain Fhionnain Intellectual Disability Unit, Ballydribeen, Killarney, Co. Kerry	0.0				
4	South	Cobh Community Hospital, Cobh, Co. Cork	50.0		59.2		
4	South	Cois Abhainn, Youghal, Co. Cork					
4	South	Dunamanway Community Hospital (St. Anthony's), Dunmanway, Co. Cork	0.0	0.0	0.0		
4	South	Gougane Barra House, Western Road, Cork	9.1			0.0	0.0
4	South	Grove House, Intellectual Disability Service, St. Mary's Health Campus, Gurrabraher, Co. Cork			43.8	15.2	
4	South	Heather House, Buttevant, Co. Cork	26.1			6.8	0.0
4	South	Kanturk Community Hospital, Kanturk, Co. Cork		46.4	10.9	7.5	31.3
4	South	Kenmare Community Hospital, Kenmare, Co. Kerry	27.6	25.0		22.6	
4	South	Kinsale Community Hospital, Kinsale, Co. Cork	22.8			22.8	
4	South	Listowel Community Hospital, Listowel, Co. Kerry	24.5			19.4	
4	South	Loher/Dinis Wards - Kerry General Hospital, Tralee, Co. Kerry				4.8	
4	South	Macroom Community Hospital, Macroom, Co. Cork	14.3		3.9	4.4	
4	South	Midleton Community Hospital and Long Stay Unit (Our Lady of Lourdes), Midleton, Co. Cork		44.3	21.3	54.7	
4	South	Millfield house, Sunbeam Industrial Estate, Old Mallow Road, Blackpool, Cork	8.3				
4	South	Mount Alvernia Hospital, Mallow, Co. Cork	21.5	18.6	15.4		
4	South-East	North Cork Mental Health Services, St. Stephens Hospital, Glanmire, Cork, Cork City	3.0	7.7	1.7		
4	South	Owenacurra Centre, Midleton, Cork	8.0				
4	South	Schull Community Hospital (St. Gabriel's), Schull, Co. Cork					
4	South	Skibbereen Community Hospital (St. Anne's), Skibbereen, Co. Cork			0.0		0.0
4	South	St Luke's Home, Cork City, Co. Cork		17.9	15.0		
4	South	St. Colmans House, Hospital Grounds, Macroom, Co. Cork	100.0				
4	South	St. Columbanus Home incorporating Killarney Community Hospital, Killarney, Co. Kerry		16.2	12.0		
4	South	St. Finbarr's Hospital, Cork, Co. Cork	49.5	47.3	13.5		
4	South	St. Joseph's Community Hospital, Millstreet, Co. Cork				3.8	
4	South	St. Patrick's Community Hospital, Fermoy, Co. Cork	11.7	0.0			1.0
4	South	Tralee Community Nursing Unit, Teile Carraig, Killerisk Road, Tralee, Co. Kerry		23.2			
4	South	West Kerry Community Hospital, Dingle, Co. Kerry	16.7	10.0	12.5	8.0	
4	South	Youghal Community Hospital, Youghal, Co. Cork	22.4	12.3	7.3	6.5	3.8

Appendix 5.2 continued Seasonal Influenza Vaccine % Uptake in HCWs by Individual LTCFs and Season, Ireland (with complete staff vaccine uptake returns)

CHO	HSE Area	Name of Public Residential Care Unit	2015-2016	2014-2015	2013-2014	2012-2013	2011-2012
5	South-East	55 Westlands (Flats), St John's Road, Wexford Town, Enniscorthy, Co. Wexford					
5	South-East	56 Westlands Hostel, St John's Road, Wexford Town, Enniscorthy, Co. Wexford					
5	South-East	58 Westlands, St John's Road, Wexford Town, Wexford Town, Co. Wexford					
5	South-East	Ardamine Community Mental Health Hostel, Ardamine, Gorey, Co. Wexford				0.0	
5	South-East	Beech Lodge, Residential unit for young people, Drinagh, Co. Wexford				4.5	
5	South-East	Brownswood Hostel, St. Senan's Hospital, Enniscorthy, Co. Wexford					
5	South-East	Carlow District Hospital, Carlow, Co. Carlow				2.9	
5	South-East	Carlow/Kilkenny Community Care, James's Green, Kilkenny City, Co. Kilkenny				8.2	
5	South-East	Carrick on Suir District Hospital (St. Brigid's), Tipperary, Co. Tipperary			42.9	20.8	20.8
5	South-East	Castlecomer District Hospital, Castlecomer, Co. Kilkenny		6.0	5.6	0.0	
5	South-East	Clogheen District Hospital (St. Theresa's), Tipperary, Co. Tipperary				8.7	
5	South-East	Cluain Arainn Community Nursing Unit, Tipperary, Co. Tipperary		27.6	16.0	37.5	3.6
5	South-East	Coolnaboy Hostel, St. Senan's Hostel, Enniscorthy, Co. Wexford					
5	South-East	Damien House, Disability Unit, Clonmel, Co. Tipperary					10.3
5	South-East	District Hospital, Gorey, Co. Wexford			3.0		0.0
5	South-East	Dunabbey House, Dungarvan, Co. Waterford					
5	South-East	Dungarvan Community Care, Dungarvan, Co. Waterford				7.8	
5	South-East	Dungarvan Community Hospital - incorporating St. Josephs Hospital and Dungarvan District Hospital (St. Vincent's), Dungarvan, Co. Waterford	25.0	16.0	6.2	13.2	
5	South-East	Greenhill Nursing Home, Carrick on Suir, Co. Tipperary		22.8	22.2		
5	South-East	Haywood Lodge, Community Nursing Unit, Clonmel, Co. Tipperary		0.0	0.0		
5	South-East	Hostel, 82 Moran Park, Enniscorthy, Co. Wexford					
5	South-East	Lakefield House, Residential unit for children, Dunmore Road, Waterford City, Co. Waterford				6.3	
5	South-East	Leeside, Tullamaine, Callan, Co. Kilkenny, Callan, Co. Kilkenny		0.0		0.0	
5	South-East	Melview House Nursing Home, Clonmel, Co. Tipperary			46.9		
5	South-East	Millview, St. John's Hospital Grounds, Enniscorthy, Co. Wexford			16.7		
5	South-East	New Haughton Hospital, New Ross, Co. Wexford				23.8	
5	South-East	Re Nua, Adult Acquired Brain Injury Services, Our Lady's Campus, Cashel, Co. Tipperary			12.5	11.8	
5	South-East	Sacred Heart Centre, Disability centre for children, Lady Lane, Waterford City, Co. Waterford				8.3	
5	South-East	Sacred Heart Hospital, Old Dublin Road, Carlow, Co. Carlow	4.0		9.9	14.0	
5	South-East	Springhill Hostels, Kilagoley, St. Senan's Hospital, Enniscorthy, Co. Wexford					
5	South-East	St. Columba's Hospital, Thomastown, Co. Kilkenny				1.3	4.0

Appendix 5.2 continued Seasonal Influenza Vaccine % Uptake in HCWs by Individual LTCFs and Season, Ireland (with complete staff vaccine uptake returns)

CHO	HSE Area	Name of Public Residential Care Unit	2015-2016	2014-2015	2013-2014	2012-2013	2011-2012
5	South-East	St. John's Hospital & St. John's Ward Ely Hosp., Enniscorthy, Co. Wexford				8.3	
5	South-East	St. Joseph's School, Ferryhouse, Clonmel, Co. Tipperary				3.5	
5	South-East	St. Otteran's Psychiatric Hospital, John's Hill, Waterford City, Co. Waterford	4.9			6.6	
5	South-East	St. Patrick's Hospital, Cashel, Co. Tipperary	33.3	50.3	59.1	7.7	54.5
5	South-East	St. Patrick's Hospital, John's Hill, Waterford, Co. Waterford	8.8	4.2	10.2	4.8	9.8
5	South-East	St. Senan's Psychiatric Hospital, Enniscorthy, Co. Wexford				4.3	
5	South-East	Transitional Living, Slí Eile, Acquired Brain Injury Unit, 17 New Toberaheena, Clonmel, Co. Tipperary				8.3	
5	South-East	Tus Nua, Rehabilitation Unit, Enniscorthy, Co. Wexford				14.3	
5	South-East	Walnut Grove, No 39/40, Residential Unit for young people, Wexford town, Co. Wexford				10.5	
5	South-East	Waterford Community Care, Cork Road, Waterford City, Co. Waterford		12.3		6.8	
5	South-East	Wexford Community Care, Grogan's Road, Wexford town, Co. Wexford				4.9	
5	South-East	Wexford Disability Services, Millbrook Day Centre, Munster Hill, Enniscorthy, Co. Wexford			5.6	2.9	
5	South-East	Wexford Mental Health Services (WMHS Rehabilitation)			4.9		
6	East	Cherryfield Lodge, Milltown Park, Dublin 6		20.5	34.9		
6	East	Children's Sunshine Home, Leopardstown Road, Dublin 18	38.5	50.0	64.0		
6	East	Cluain Mhuire Community Mental Health Service, St John of God Community Services, Stillorgan, Co. Dublin, Stillorgan, Co. Dublin		36.8	39.1		
6	East	Dalkey Community Unit, Dalkey, Co. Dublin	34.0	40.5	41.7	32.1	
6	East	Dublin South East HSE Units - Clonskeagh Hospital (Amalgamated return for Sir Patrick Dunn's, St. Broc's and Clonskeagh), Dublin 6, Co. Dublin		45.9	38.9	35.9	59.6
6	East	Greystones Nursing Home, Church Road, Greystones, Co. Wicklow		85.7	84.2		
6	East	Leopardstown Park Hospital, Dublin 18	48.1	44.6	45.6		36.3
6	East	St. Colman's Hospital, Rathdrum, Rathdrum, Co. Wicklow	12.7	9.8	19.8	11.2	
6	East	Tara Care Centre, 5/6 Putland Road, Bray, Co. Wicklow			75.0		
6	East	The Royal Hospital, Dublin 4		30.1	33.1		15.4
7	East	Baltinglass District Hospital, Baltinglass, Co. Wicklow		40.6			35.0
7	East	Belvilla Community Unit for Older Persons, Dublin 8	15.6	9.6	13.4	11.4	
7	East	Cherry Orchard Hospital, Dublin 10	29.3	32.2	18.2		
7	East	Good Counsel Centre, Ballyboden, Dublin 16		37.2			
7	East	Marymount Care Centre, Westmanstown, Lucan, Co. Dublin		21.4	10.7		
7	East	Maynooth Community Unit, Maynooth, Co. Kildare			18.6	16.9	17.2
7	East	Meath Community Hospital, Dublin 8		32.5			
7	East	Muiriosa Foundation, Moore Abbey, Monasterevin, Co. Kildare (St. Kildare Services)	17.6	17.0	18.8		
7	East	Oghill Nursing Home, Oghill, Monasterevin, Co. Kildare	56.7	62.5	24.6		
7	East	Our Lady's Hospice, Dublin 6W	31.8	28.1	40.5		
7	East	Peamount Hospital, Co Dublin				17.7	

Appendix 5.2 continued Seasonal Influenza Vaccine % Uptake in HCWs by Individual LTCFs and Season, Ireland (with complete staff vaccine uptake returns)

CHO	HSE Area	Name of Public Residential Care Unit	2015-2016	2014-2015	2013-2014	2012-2013	2011-2012
7	East	Southside Intellectual Disability Unit, Ballyboden, Co. Dublin				26.5	16.3
7	East	St. Brigid's Home, Crooksling, Brittas, West Co. Dublin			24.8	31.5	19.1
7	East	St. John of God Community Services Ltd., St. Raphael's, Celbridge, Co. Kildare			8.8		
7	East	St. Louise's, Glenmaroon, Chapelizod	28.0	17.6	27.6	23.1	
7	East	St. Vincent's Hospital, Athy, Co. Kildare	22.2	20.7	12.0	5.7	
7	East	The Marley Nursing Home, Kellystown Road, Rathfarnham, Dublin 16	34.3	21.5	33.2		
8	Midlands	Abbeyleix District Hospital, Abbeyleix, Co. Laois			25.0	3.6	
8	North-East	An Solasan, Priorsland Road, Louth PCCC, Dundalk, Co. Louth					
8	North-East	Avalon House 15/16 Beechmount Vale, Navan, Co. Meath				53.3	
8	North-East	Beaufort House, Navan Community Health Unit, Athboy Road, Navan, Co. Meath	13.8			17.1	9.1
8	Midlands	Birr Community Nursing Unit, Birr, Co. Offaly	17.3	48.7	19.8	7.3	
8	North-East	Boyne View House, Drogheda, Co. Louth	29.0	23.6	20.7	8.3	
8	North-East	Caradas House, Drumconrath, Navan, Co. Meath				30.8	
8	North-East	Clanntara House, Meath Disability Services, Athboy Road, Trim, Co. Meath				66.7	
8	North-East	Coill Darach, Navan, Co. Meath				31.8	
8	North-East	Cottage Hospital, Drogheda, Co. Louth	27.3	27.0	12.5	11.6	26.2
8	North-East	Ivy House, Proudstown Road, Navan, Co. Meath	18.8		42.9	46.7	
8	North-East	Lios na Greine, Disability Unit, Dundalk, Co. Louth					10.5
8	North-East	NaDriseoga Respite Unit, Commons Road, Navan, Co. Meath		0.0		12.5	
8	North-East	No 25, Grand Priory, Kells, Co. Meath			20.0	75.0	
8	Midlands	Ofalia House Community Nursing Unit, Edenderry, Co. Offaly				33.8	
8	North-East	Owls Rest, Kilmainham, Kells, Co. Meath					12.5
8	Midlands	Riada House Community Unit, Tullamore, Co. Offaly	3.4		8.2	5.8	
8	Midlands	St. Brigid's Hospital, Shaen, Portlaoise, Co. Laois	20.8	25.0	37.5	4.8	
8	Midlands	St. Joseph's Care Centre, Longford, Co. Longford	16.9	15.7	20.6	29.5	
8	North-East	St. Joseph's Hospital, Ardee, Ardee, Co. Louth	27.0	23.5	25.6	24.4	13.3
8	North-East	St. Joseph's Hospital, Trim, Trim, Co. Meath	22.8	27.8			14.4
8	North-East	St. Mary's Hospital, Drogheda, Drogheda, Co. Louth	30.4	22.7	18.4	22.0	6.0
8	Midlands	St. Mary's Hospital, Mullingar (now called Cluain Lir Community Nursing Unit), Mullingar, Co. Westmeath	33.7	25.0	19.8	18.3	17.9
8	North-East	St. Mary's Residence, Louth/Meath Mental Health Unit, Drogheda, Co. Louth					0.0
8	North-East	St. Oliver Plunkett Hospital, Drogheda, Co. Louth					
8	Midlands	St. Vincent's Care Centre, Athlone, Co. Westmeath	16.7	6.6	10.9	7.4	26.0
8	Midlands	St. Vincent's Hospital, Mountmellick, Co. Laois	32.2	30.8	45.3	39.6	
8	North-East	The Coastguards Disability Unit, 194 Lower Point Road, Dundalk, Co. Louth		20.0		46.7	42.9
8	North-East	The Moorings Hostel, Mental Health Unit, Dundalk, Co. Louth					0.0
9	East	Clarehaven Nursing Home, Dublin 11					11.8
9	East	Connolly Hospital (Silver Birch & Woodland Units), Dublin 15	20.0	34.9	17.2	23.3	29.2
9	East	Connolly Hospital (Sycamore Psychiatry of Old Age Unit), Dublin 15	31.0	53.6	41.4	18.8	
9	East	Lusk Community Unit, Lusk, Co. Dublin	71.2	60.7	48.3	37.1	30.7
9	East	Raheny Community Nursing Unit, Dublin 9	54.2	62.2	56.9	53.1	38.8
9	East	Seanchara Community Unit, Dublin 11	61.9	58.5	43.9	29.2	1.4
9	East	St. Clare's Home, Glasnevin, Dublin 9	53.2	51.9		27.0	
9	East	St. Ita's Psychiatric Hospital, Portrane, Co. Dublin					
9	East	St. Joseph's Centre, Daughters of Charity, Grange Road, Dublin 15	24.8	26.0	31.5	24.8	
9	East	St. Joseph's Disability Service, Portrane, Co. Dublin					
9	East	St. Mary's Hospital, Phoenix Park, Dublin 20	24.7	24.5	22.5	13.0	
9	East	St. Michaels House, Ballymun Road, Dublin 9			23.4	21.3	
9	East	St. Rosalie's, Convent Lane, Portmarnock, Co. Dublin	88.5	96.4	93.1	42.9	
9	East	St. Vincent's Centre, Navan Road, Dublin 7	51.4	52.5	37.7	23.8	

Appendix 6.1 Seasonal Influenza Vaccine Uptake in LTCFs by CHO, 2015-2016, Ireland (n=98 LTCFs with complete staff vaccine uptake returns)

Community Health Organisation (CHO) Area	Total Eligible Staff	Total Staff Vaccinated	% Total Staff Vaccinated (OVERALL)	Number of LTCFs
Area 1: Donegal; Sligo/Leitrim/West Cavan; Cavan/Monaghan	1163	242	20.8	20
Area 2: Galway; Roscommon; Mayo	802	168	20.9	11
Area 3: Clare; Limerick; North Tipperary/East Limerick	209	64	30.6	3
Area 4: Kerry; North Cork; North Lee; South Lee; West Cork	1621.64	392	24.2	23
Area 5: South Tipperary; Carlow/Kilkenny; Waterford; Wexford	724	113	15.6	5
Area 6: Wicklow; Dun Laoghaire; Dublin South East	542	192	35.4	4
Area 7: Kildare/West Wicklow; Dublin West; Dublin South City; Dublin South West	1791	483	27.0	8
Area 8: Laois/Offaly; Longford/Westmeath; Louth/Meath	1148	253	22.0	14
Area 9: Dublin North; Dublin North Central; Dublin North West	1354	513	37.9	10
Total (98 LTCFs)*	9354.64	2420	25.9	98

*Total excludes uptake missing or incomplete figures from: Teach Aisling, Castlebar, Co. Mayo; Sacred Heart Hospital, Castlebar, Co. Mayo; The Royal Hospital, Dublin 4

Appendix 6.2 Seasonal Influenza Vaccine Uptake in LTCFs by HSE Area, 2015-2016, Ireland (n=98 LTCFs with complete staff vaccine uptake returns)

HSE Area	Total Eligible Staff	Total Staff Vaccinated	% Total Staff Vaccinated (OVERALL)	Number of LTCFs
East	3687	1188	32.2	22
Midlands	760	162	21.3	7
Mid-West	209	64	30.6	3
North-East	852	151	17.7	13
North-West	699	182	26.0	14
South	1454.64	387	26.6	22
South-East	891	118	13.2	6
West	802	168	20.9	11
Total (98 LTCFs)*	9354.64	2420	25.9	98

*Total excludes uptake missing or incomplete figures from: Teach Aisling, Castlebar, Co. Mayo; Sacred Heart Hospital, Castlebar, Co. Mayo; The Royal Hospital, Dublin 4

Appendix 7 Seasonal Influenza Vaccine Uptake in LTCFs by HSE Category of Staff, 2015-2016, Ireland (n=98 LTCFs with complete staff vaccine uptake returns)

HSE Grade Category	Total Eligible Staff	Total Staff Vaccinated	% Total Staff Vaccinated (OVERALL)
General Support Staff	2084.24	549	26.3
Health & Social Care Professionals	1050	258	24.6
Management & Administration	1164	327	28.1
Medical & Dental	158	70	44.3
Nursing	3170.4	796	25.1
Other Patient & Client Care	1728	420	24.3
Total*	9354.64	2420	25.9

*Total excludes uptake missing or incomplete figures from: Teach Aisling, Castlebar, Co. Mayo; Sacred Heart Hospital, Castlebar, Co. Mayo; The Royal Hospital, Dublin 4

Appendix 8 LTCF activity statistics and seasonal influenza vaccination by season, Ireland

Criteria	2011-2012	2012-2013	2013-2014	2014-2015	2015-2016
Number of participating LTCFs	120	183	131	101	100
Number of Long Stay Beds Reported	4849	5701	6386	4946	4528
Average Number of Long Stay Beds per LTCF Reported	40.4	31.2	48.7	49.0	45.3
Number of Long Stay Residents on Date of Report	4524	6356	6084	4765	4240
Average Number of Long Stay Residents per LTCF on Date of Report	37.7	34.7	46.4	47.2	42.4
% Occupancy of Long Stay Residents in Long Stay Beds on Date of Report	93.3%	111.5%	95.3%	96.3%	93.6%
Number of Long Stay Residents Since Season Start	4619	6503	6210	5090	5201
Average Number of Long Stay Residents per LTCF Since Season Start	38.5	35.5	47.4	50.4	52.0
% Occupancy of Long Stay Residents in Long Stay Beds Since Season Start	95.3%	114.1%	97.2%	102.9%	114.9%
Number of Long Stay Residents who have Left or Died	667	811	638	656	667
Average Number of Long Stay Residents per LTCF who have Left or Died	5.6	4.4	4.9	6.5	6.7
Number of Long Stay Residents Vaccinated on Date of Report	3864	5001	5365	4436	3883
Average Number of Long Stay Residents Vaccinated per LTCF on Date of Report	32.2	27.3	41.0	43.9	38.8
Number of Long Stay Residents Vaccinated Since Season Start	4078	4746	5232	4931	4540
Average Number of Long Stay Residents Vaccinated per LTCF Since Season Start	34.0	25.9	39.9	48.8	45.4
% Long Stay Residents Vaccinated on Date of Report	85.4%	78.7%	88.2%	93.1%	91.6%
% Long Stay Residents Vaccinated Since Season Start	88.3%	73.0%	84.3%	96.9%	87.3%
Number of Respite Beds Reported	521	549	628	528	536
Number of Respite Residents on Date of Report	501	485	496	344	318
Average Number of Respite Residents per LTCF on Date of Report	4.2	2.7	3.8	3.4	3.2
% Occupancy of Respite Residents in Respite Beds	96.2%	88.3%	79.0%	65.2%	59.3%
Number of Respite Residents Since Season Start	5591	4790	3139	3585	2649
Average Number of Respite Residents per LTCF Since Season Start	46.6	26.2	24.0	35.5	26.5
Number of Respite Residents that were Vaccinated Before Admission Since Season Start	159	449	541	1018	710
Average Number of Respite Residents that were Vaccinated Before Admission per LTCF Since Season Start	1.3	2.5	4.1	10.1	7.1
% Respite Residents that were Vaccinated Before Admission Since Season Start	2.8%	9.4%	17.2%	28.4%	26.8%
Number of Respite Residents that were Vaccinated in LTCFs Since Season Start	172	303	467	428	297
Average Number of Respite Residents per LTCF that were Vaccinated in LTCFs Since Season Start	1.4	1.7	3.6	4.2	3.0
% Respite Residents that were Vaccinated in LTCFs Since Season Start	3.1%	6.3%	14.9%	11.9%	11.2%
% All Vaccinated Respite Residents Since Season Start	5.9%	15.7%	32.1%	40.3%	38.0%

Appendix 9.1 Individual LTCFs with policy of vaccinating respite residents before admission by season, Ireland

Long Term Care Facility Name	2011-2012	2012-2013	2013-2014	2014-2015	2015-2016
Sacred Heart Hospital, Old Dublin Road, Carlow, Co. Carlow		Yes	Yes	Yes	Yes
Kenmare Community Hospital, Kenmare, Co. Kerry				Yes	Yes
Listowel Community Hospital, Listowel, Co. Kerry					Yes
Kanturk Community Hospital, Kanturk, Co. Cork	Yes	Yes		Yes	
St. Patrick's Community Hospital, Fermoy, Co. Cork			Yes		Yes
Macroom Community Hospital, Macroom, Co. Cork			Yes		Yes
Heather House, Buttevant, Co. Cork			Yes	Yes	Yes
Bandon Community Hospital, Bandon, Co. Cork			Yes		
Kinsale Community Hospital, Kinsale, Co. Cork					Yes
St. Finbarr's Hospital, Cork, Co. Cork			Yes		
St. Patrick's Hospital, Cashel, Co. Tipperary	Yes	Yes			Yes
St. Patrick's Hospital, John's Hill, Waterford, Co. Waterford			Yes		Yes
Dungarvan Community Hospital - incorporating St. Josephs Hospital and Dungarvan District Hospital (St. Vincent's), Dungarvan, Co. Waterford			Yes	Yes	Yes
Clonakilty Community Hospital and Long Stay Unit (Mount Carmel Home and Hospital), Clonakilty, Co. Cork			Yes		Yes
Skibbereen Community Hospital (St. Anne's), Skibbereen, Co. Cork			Yes		
Dunamanway Community Hospital (St. Anthony's), Dunmanway, Co. Cork					Yes
Castletownbere Community Hospital (St. Joseph's), Castletownbere, Co. Cork	Yes				
Sullivan Memorial Home, Cavan, Co. Cavan					Yes
Lusk Community Unit, Lusk, Co. Dublin				Yes	Yes
Seanchara Community Unit, Dublin 11				Yes	Yes
St. Clare's Home, Glasnevin, Dublin 9				Yes	
St. Joseph's Hospital, Trim, Trim, Co. Meath		Yes			Yes
Dalkey Community Unit, Dalkey, Co. Dublin					Yes
Leopardstown Park Hospital, Dublin 18			Yes	Yes	Yes
St. Brigid's Home, Crooksling, Brittas, West Co. Dublin	Yes		Yes		
Baltinglass District Hospital, Baltinglass, Co. Wicklow				Yes	
St. Vincent's Hospital, Athy, Co. Kildare			Yes	Yes	Yes
Abbeyleigh District Hospital, Abbeyleigh, Co. Laois		Yes	Yes		
St. Brigid's Hospital, Shaen, Portlaoise, Co. Laois				Yes	Yes
St. Colman's Hospital, Rathdrum, Rathdrum, Co. Wicklow			Yes	Yes	Yes
Regina House Community Nursing Unit, Kirush, Co. Clare			Yes		
St. Joseph's Community Hospital, Ennis, Co. Clare			Yes		
Shiel Community Hospital, College Street, Ballyshannon, Co. Donegal	Yes				
Clifden District Hospital, Clifden, Co. Galway		Yes			
St. Brendan's Home, Loughrea, Co. Galway				Yes	
Dalton Community Nursing Unit, Claremorris, Co. Mayo		Yes	Yes	Yes	Yes
Belmullet District Hospital (including Aras Deirbhile), Belmullet, Co. Mayo				Yes	Yes
Swinford District Hospital, Swinford, Co. Mayo		Yes			
St. Patrick's Community Hospital, Carrick on Shannon, Co. Leitrim			Yes		
Hospital of the Assumption, Thurles, Co. Tipperary			Yes		
Dean Maxwell Community Nursing Unit, Roscrea, Co. Tipperary			Yes		
Beaufort House, Navan Community Health Unit, Athboy Road, Navan, Co. Meath		Yes			
Aras Attracta Intellectual Disability Services, Swinford, Co. Mayo		Yes	Yes		
Cleary House Supervised Residential Unit, Mental Health Services, Letterkenny, Co. Donegal		Yes			
Ballincollig Community Nursing Unit, Ballincollig, Co. Cork				Yes	Yes
Count	5	11	24	21	26

Appendix 9.2 Individual LTCFs with policy of vaccinating staff by season, Ireland

Long Term Care Facility Name	2012-2013	2013-2014	2014-2015	2015-2016
Kenmare Community Hospital, Kenmare, Co. Kerry				Yes
Listowel Community Hospital, Listowel, Co. Kerry				Yes
Midleton Community Hospital and Long Stay Unit (Our Lady of Lourdes), Midleton, Co. Cork			Yes	
Heather House, Buttevant, Co. Cork		Yes	Yes	Yes
St. Patrick's Hospital, Cashel, Co. Tipperary	Yes	Yes	Yes	Yes
Dunamanway Community Hospital (St. Anthony's), Dunmanway, Co. Cork				Yes
New Haughton Hospital, New Ross, Co. Wexford	Yes			
Boyne View House, Drogheda, Co. Louth	Yes			
Cottage Hospital, Drogheda, Co. Louth	Yes			
St. Mary's Hospital, Drogheda, Drogheda, Co. Louth	Yes			
St. Joseph's Hospital, Trim, Trim, Co. Meath		Yes		Yes
Leopardstown Park Hospital, Dublin 18		Yes	Yes	Yes
St. Vincent's Hospital, Athy, Co. Kildare			Yes	Yes
St. Joseph's Care Centre, Longford, Co. Longford	Yes	Yes	Yes	
St. Colman's Hospital, Rathdrum, Rathdrum, Co. Wicklow				Yes
Aras Mhuire Community Nursing Unit, Tuam, Co. Galway				Yes
Dean Maxwell Community Nursing Unit, Roscrea, Co. Tipperary	Yes			
Cleary House Supervised Residential Unit, Mental Health Services, Letterkenny, Co. Donegal	Yes			
Ivy House, Proudstown Road, Navan, Co. Meath				Yes
Grove House, Intellectual Disability Service, St. Mary's Health Campus, Gurrabraher, Co. Cork	Yes			
Ardamine Community Mental Health Hostel, Ardamine, Gorey, Co. Wexford	Yes			
Children's Sunshine Home, Leopardstown Road, Dublin 18				Yes
The Marley Nursing Home, Kellystown Road, Rathfarnham, Dublin 16			Yes	Yes
Mount Alvernia Hospital, Mallow, Co. Cork		Yes	Yes	Yes
Muiriosa Foundation, Moore Abbey, Monasterevin, Co. Kildare (Sth. Kildare Services)			Yes	Yes
Cluain Fhionnain Intellectual Disability Unit, Ballydribeen, Killarney, Co. Kerry				Yes
St. Colmans House, Hospital Grounds, Macroom, Co. Cork				Yes
Owenacurra Centre, Midleton, Cork				Yes
Count	10	6	9	18

Note: Question regarding the vaccination of staff was not asked in the 2011-2012 season survey