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## Factsheet Vaccine Coverage Dutch National Influenza Prevention Program 2014

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### Main results

The findings are based on data from 188 general practices with 717.682 listed persons. 266.888 (37.2%) of the population was identified as belonging to the target group for seasonal influenza vaccination, defined by age (60 years or older) and certain medical conditions.

The vaccine coverage in the target group was 52.8% in 2014 (Table 1).

Compared to previous years, the vaccine coverage in the target population was lower. The vaccine coverage has been decreasing since 2008 (Table 1).

The vaccine coverage was highest for persons with diabetes mellitus (69.1%) and persons with chronic kidney insufficiency (65.8%) (Table 2).

For specific medical indications, the vaccine coverage was higher among persons with conditions classified for certain to the at-risk group (Table 2).

A quarter (25%) of the population was aged 60 years or older. The vaccine coverage in this group was 60.1% (Table 3).

Among those aged 60 years or older, the vaccine coverage was higher in the presence of an additional medical indication for vaccination (Table 3).

### Comment

The decrease of the vaccine coverage continued in 2014. In previous years, the target population for influenza vaccination consisted of patients identified by their general practitioner as eligible for vaccination. In contrast, the target population for the vaccination rate of 2014 was identified using anonymous information from the electronic medical files of general practices. Due to the different methods, the findings for 2014 are not entirely comparable with previous years.

**Table 1: Target population and seasonal influenza vaccine coverage, 2008-2014**

	IQ Healthcare <sup>1</sup>						NIVEL <sup>2</sup>	Averaged yearly difference	Difference 2014-2013
	2008	2009	2010	2011	2012	2013	2014		
General practices (n)	56	72	69	68	61	45	<b>188</b>		
Population (n)	210,713	262,958	281,714	259,348	222,594	177,631	<b>717,682</b>		
<b>Size of target population</b>									
As percentage of the total population (%)	30.5	31.8	30.9	30.0	31.8	32.1	<b>37.2</b>	1.1	5.1
<b>Vaccine coverage</b>									
As percentage of the total population (%)	21.8	22.4	21.3	19.7	19.8	19.1	<b>19.6</b>	-0.4	0.5
As percentage of the target group (%)	71.5	70.4	68.9	65.7	62.4	59.6	<b>52.8</b>	-3.1	-6.8

<sup>1</sup> results from practices participating in the 'Landelijk Informatienetwerk Huisartsenzorg' (Tacken M.A., et al. Monitoring vaccinatiegraad Nationaal Programma Grieppreventie 2013. Nijmegen, IQ Healthcare: 2014)

<sup>2</sup> results from practices participating in 'NIVEL Primary Care database' (Sloot R, et al. Vaccinatiegraad Nationaal Programma Grieppreventie 2014. Utrecht, NIVEL: 2015)

**Table 2: Size and seasonal influenza vaccine coverage by medical indication for influenza vaccination and certainty of classification of the indication, 2014**

Medical indication	Size of target population as percentage of the population (%)	Vaccine coverage (%)
<b>Cardiovascular diseases</b>	<b>18.9</b>	<b>58.2</b>
Possible indication	11.9	52.8
Certain indication	7.0	68.6
<b>Lung diseases</b>	<b>7.7</b>	<b>54.5</b>
Possible indication	3.1	40.9
Certain indication	4.7	65.0
<b>Diabetes mellitus (certain indication)</b>	<b>6.3</b>	<b>69.1</b>
<b>Diminished resistance</b>	<b>1.6</b>	<b>52.7</b>
Possible indication	1.6	52.6
Certain indication	<0.1	57.5
<b>Chronic kidney insufficiency</b>	<b>1.6</b>	<b>65.8</b>
Possible indication	1.4	64.7
Certain indication	0.3	72.0
<b>Respiratory disorders caused by neurol. con. (possible indication)</b>	<b>1.7</b>	<b>60.7</b>
<b>HIV</b>	<b>0.1</b>	<b>49.8</b>
Possible indication	<0.1	30.9
Certain indication	0.1	50.7

**Table 3: Size and seasonal influenza vaccine coverage by age group and medical indication for influenza vaccination, 2014**

Age group	Size of target population as percentage of the population (%)	Vaccine coverage (%)
<b>&lt;60 years (with medical indication)</b>	<b>11.1</b>	<b>30.6</b>
<b>60-64 years</b>	<b>24.7</b>	<b>60.1</b>
Without medical indication	8.9	42.5
With medical indication	15.8	69.9
<b>≥60 years</b>	<b>6.3</b>	<b>40.7</b>
Without medical indication	3.3	27.9
With medical indication	3.0	54.8
<b>≥65 years</b>	<b>18.3</b>	<b>66.9</b>
Without medical indication	5.6	51.4
With medical indication	12.8	73.6

### **Monitor Dutch National Influenza Prevention Program**

The Dutch National Influenza Prevention Program was established in 1997 and provided an infrastructure for influenza vaccination. The aim is to protect vulnerable groups from complications due to (the consequences of) influenza. Based on the recommendations of the Dutch Health Council, persons at risk are invited to see their general practitioner for influenza vaccination free of charge. The target population is defined as people with cardiovascular diseases, diabetes mellitus, lung diseases, diminished resistance (due to medical treatment or disease), serious kidney

conditions, respiratory disorders caused by neurological conditions, HIV-infection, and all people aged 60 year or older.

The aim of the annual monitor is to map the coverage of the Influenza Prevention Program. The 2014 monitor was performed by NIVEL using information from practices participating in the NIVEL Primary Care Database.

Pseudonymized data from electronic medical files of participating general practices were used to estimate the size and influenza vaccine coverage of the specific target groups.