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Lowering the recommended age for influenza vaccination *from 65 to 60 years*: impact on the total number of vaccinations

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Introduction

Dutch Influenza Prevention Programme



In the Netherlands: **free** influenza vaccination for

- Elderly: **lowered from 65 to 60 years**
- and people of any age with:
 - Cardiovascular diseases
 - Lung diseases
 - Diabetes
 - Kidney conditions
 - Poor resistance (f.e. as a result of chemotherapy)

Guideline change


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Research question:

What is the impact of the guideline change?

- On *number of vaccines* needed
- On *workload* in general practice

} in 2008



Financially supported by: *rivm*

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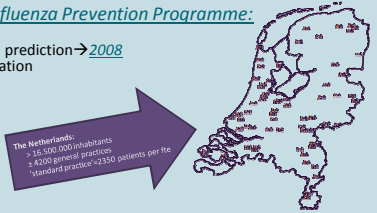
Methods: *linh*

Aim: collecting and providing continuous representative information concerning (the quality of) health care delivered by Dutch GP's

Methods: Patient data are extracted from computerised medical record systems of general practices

Monitoring Dutch Influenza Prevention Programme:

- Since 1996
- Data 2006 & 2007 : prediction → 2008
- Data 2008 for validation



The Netherlands:
> 16,500,000 inhabitants
+ 4300 general practices
*standard practice: ~2330 patients per GP.

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Results

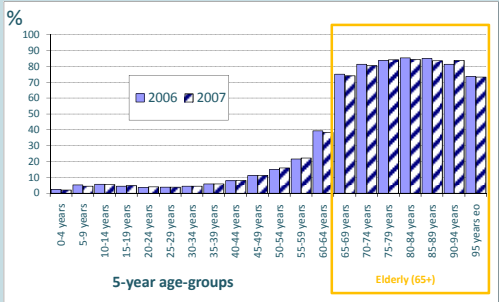
Dutch Influenza Prevention Programme

Extent and vaccination rate of the target population

| | 2006 | 2007 |
|---|-------|-------|
| Target population | 24.3% | 25.3% |
| Vaccination rate of the target population | 74.5% | 73.5% |
| Vaccination rate of Dutch inhabitants | 18.1% | 18.6% |

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Vaccinated (high-risk) patients by 5 years age-groups (%)



Legend: 2006 (blue), 2007 (hatched)

5-year age-groups

Elderly (65+)

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Vaccination rate of the target population

| High risk condition*: | 2006 | 2007 |
|-------------------------------|-------|-------|
| Lung diseases | 72.9% | 72.1% |
| Cardiovascular diseases | 86.0% | 85.2% |
| Diabetes | 85.1% | 84.2% |
| Kidney conditions | 82.4% | 82.0% |
| Elderly (>65 years) | | |
| Known with medical indication | 88.3% | 87.7% |
| 'Healthy'-elderly | 74.8% | 74.6% |

*Due to co-morbidity, patients can belong to more than one high risk group

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New target population = 'healthy' 60-65 years old

Estimation of the number of patients in 2008

| | 2006 | 2007 | Extra patients predicted 2008 (n per standard practice of 2350 patients) |
|--|------|------|---|
| % 60-65 years in population | 4.8 | 5.3 | - |
| % 'healthy' 60-65 years in population | 2.3 | 2.6 | 55-62 extra patients indicated |
| % vaccinated 'healthy' 60-65 years in population | 1.7 | 1.9 | 41-46 extra patients vaccinated |

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Validation with results 2008

Extent and vaccination rate of the 'new' target population

| | prediction based on monitoring 2006 | prediction based on monitoring 2007 | monitoring 2008 |
|--|-------------------------------------|-------------------------------------|-----------------|
| % 'healthy' 60-65 years in population | 2.3% | 2.6% | 2.8% |
| % vaccinated 'healthy' 60-65 years in population | 1.7% | 1.9% | 1.6% |

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Dutch Influenza Prevention Programme Vaccination rates 2006-2007-2008

| | 2006 | 2007 | 2008 |
|-----------------------------------|------|------|------|
| | % | % | % |
| % vaccinated in population | 18.1 | 18.6 | 21.8 |
| % vaccinated of target population | 74.5 | 73.5 | 71.5 |


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Conclusions

- Predictions of target population came near to reality
- In any case: monitoring shows steady figures
- Vaccination rate of healthy people aged 60-65 years old was low (52%)

Campaign 2009

- Habituation of new target group?
- Impact of pandemic flu (Influenza A(H1N1))?
- **MONITORING!!**



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