



# HPV vaccination coverage drop: are there common denominators?

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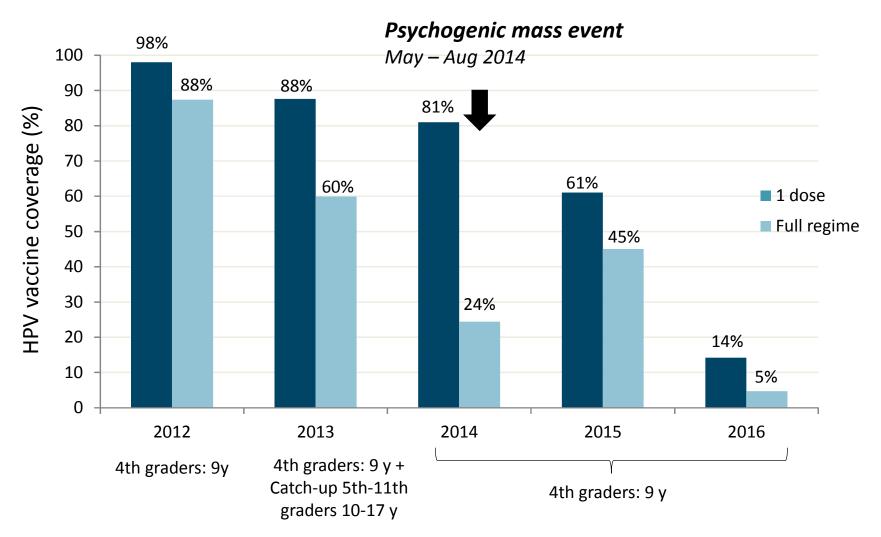




### Introduction

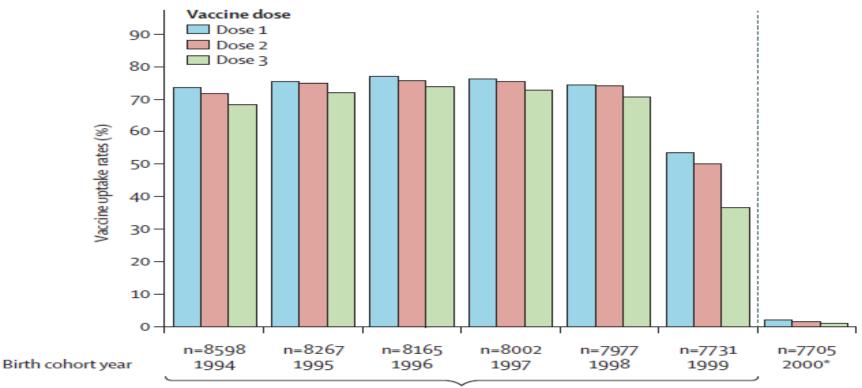
- A number of countries faced steep or substantial drop in HPV vaccine coverage.
  - E.g. Japan, Colombia, and Denmark
- Previous meetings:
  - Barriers in HPV vaccination & cervical screening programmes', 27-28 June 2016, Antwerp, Belgium
  - Prevention and control of HPV and HPV- related cancers in Denmark: lessons learned and the way forward', 17-18 November 2016, Copenhagen, Denmark
  - Posters presented at the Symposium: "Building Trust, Managing Risk: Vaccine Confidence and Human Papillomavirus Vaccination, 7-8 June 2017, London, UK
    - Japan, Colombia and Denmark

#### **Coverage rate HPV vaccination in Colombia**



Personal communication from the ICO HPV Information Centre. Data from Colombia Ministry of Health and Social Protection

#### Uptake rates HPV vaccine in Sapporo, Japan, as of March, 2014

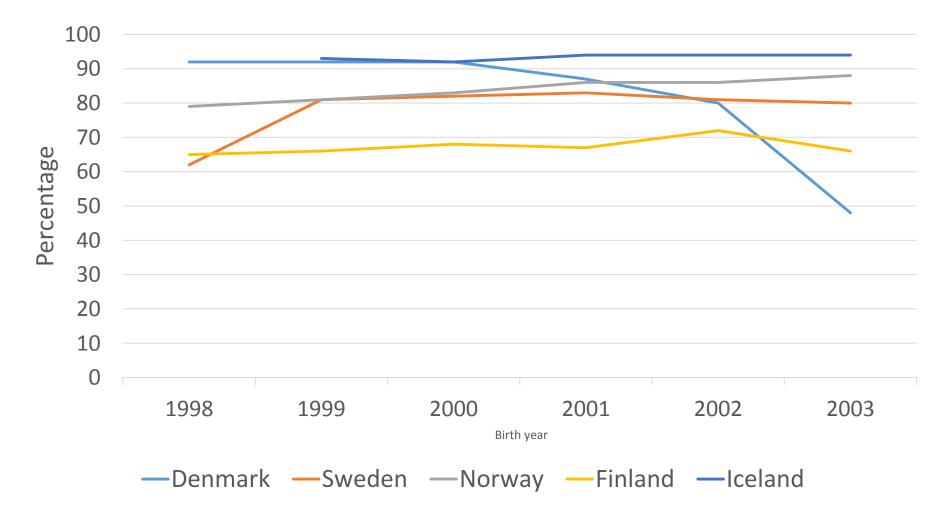


Eligible for free vaccination before suspension of proactive recommendation

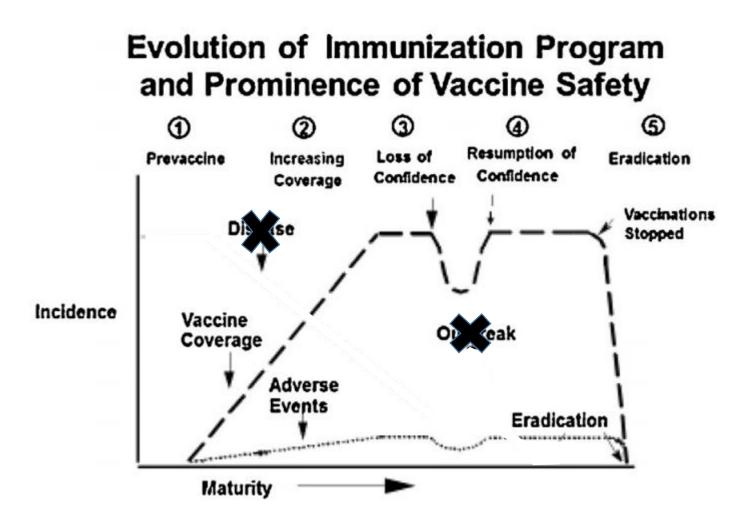
### The first birth cohort who were eligible for free vaccination after suspension of proactive recommendation.

Hanley S.J.B. et al. HPV vaccination crisis in Japan. The Lancet (2015) 385: 2571

#### **Coverage rate HPV vaccination / birth cohort I** in different Nordic Countries



Courtesy of Palle Valentiner-Brandt



**Fig. 1.** Potential stages in the evolution of immunization program, showing the dynamics of the interaction between vaccine coverage, disease incidence and vaccine adverse events, as the program matures from pre-vaccine to disease eradication

Enhancing vaccine safety capacity globally: a lifecycle perspective. Vaccine 33, 2015

## Mapping of stakeholders/factors potentially having impact on HPV vaccination coverage in the different countries

- Events are covered extensively; not Media and **Events being** always taking into account scientific - observed in vaccinated girls social media associated with arguments - having a long and severe vaccination impact on coverage - response is slow, absence of crisis plan Government or strategy Ministry of - stops recommending vaccination (JP); **Health NITAG** - getting lot of attention and seem to Organized "antistarts sponsored investigation (DK) have large impact on social medial. vaccine" - referring to limited number of "bad activities/groups those that defend vaccination are science" articles blamed to be biased by Industry Academic some generate 'bad science' researchers attempting to demonstrate causality - in general very positive towards between vaccines and AE. importance, safety and effectiveness Public confidence of vaccines. Very good coverage of - have data, expertise and early alert Adolescents/Parents other vaccines (JP,DK, CO) systems Industry/Vaccine - follow recommendation of - often negatively perceived manufacturers vaccinators (JP, DK) - reports from assertive marketing reinforcing negative perception. - most important information / - supported/stimulated by 'anti-vaccine' Vaccine recommendation source for parents/girls groups, specialized lawyers providers/ - appropriate training (especially GPs and Vaccine injury - opinions from experts called in by HCW other HCW outside a school based reimbursements parents/lawyers are not necessarily vaccination system) is challenging /court cases supported by the scientific community. - should very well understand difference

between association time and causality

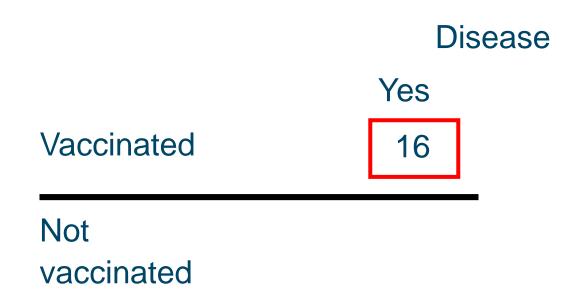
- reimbursement does confirm a direct causal link

THE CDC DID AN EPIDEMIOLOGICAL STUDY AND DISCOVERED THAT SPERM DO NOT CAUSE PREGNANCY THEY COUNTED THE NUMBER OF SPERM EJACULATED AND COMPARED THIS TO THE NUMBER OF PREGNANCIES AND FOUND THAT THE STATISTICAL CORRELATION WAS TOO SMALL TO SUGGEST A CAUSAL RELATIONSHIP.

#vaxxed #vaxxedthemovie #panran

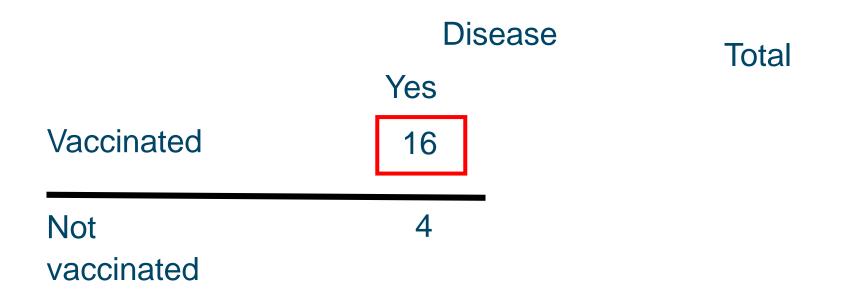
### Safety of vaccines: interpretation = difficult

• What we 'see' determines our perception



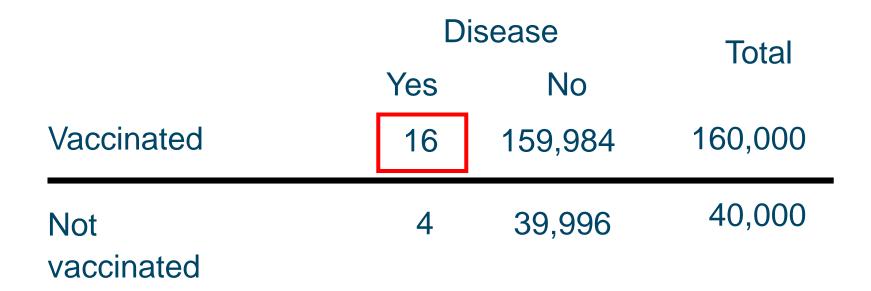
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### Safety of vacines: interpretation = difficult

- What we 'see' determines our perception
  - but we need the total picture:
  - population 200,000
  - Risk of a disease (e.g. MS): 1/10,000
  - Immunization rate: 80%



#### Lessons learnt at our Denmark meeting

- Include a communication budget at the start of (national) vaccination programs;
- Consider the use of social media as part of the communication strategy;
- Provide training to HCP on how to discuss the vaccine with vaccinees and their parents;
- Develop a crisis action plan before the introduction of vaccination, as there will be no time once a crisis occurs;
- Define the right **age for vaccination**, as this may diminish some challenges;
- Communicate about the vaccine as **one voice among experts**;
- Take potential side effects seriously, but without focusing on the alleged link, keeping the focus on the positive benefit risk balance of the vaccine.
- Reach out to silent supporters of the vaccine

#### Conclusions of barriers meeting in Antwerp

- good preparation, well in advance of the start of the program
- good communication, with all parties involved, with material that is suitable for each target group, and extra attention for hard-to-reach populations, as they may be at higher risk
- a school-based system
- an action plan to quickly and effectively handle anti-vaccine media exposure
- appropriate data management and linkage to facilitate early detection of signals, but also show impact of vaccination

### Thank you for your attention



#### www.hpvboard.org

