The National Immunisation Schedule Update and Current issues November 2013

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National Immunisation Office





Objectives

- To outline immunisation schedules in Ireland
 - Primary childhood schedule
 - Vaccine uptake rates
 - School immunisation programme
 - Seasonal influenza vaccination programme
- To highlight development of new vaccines





Dates vaccines introduced into the Irish immunisation schedule

1937 - 1999			
Vaccine	Date introduced		
1. BCG	1937		
2. DT	1930s		
3. DTP	1952		
4. Oral Polio Vaccine (OPV)	1957		
5. Rubella	1971		
6. Measles	1985		
7. MMR	1988		
8. MMR2	1992		
9. Hib	1992		

2000 - 2011			
Vaccine	Date introduced		
1. Men C	2000		
2. DTaP-Hib-IPV (5 in1)	2001		
3. Inactivated Polio (IPV)	2001		
4. Hib Booster	2006		
5. Hepatitis B (as part of 6 in 1)	2008		
6. PCV7	2008		
7. HPV	2010		
8. PCV	2010		
8. Tdap	2012		





Primary Childhood Immunisation (PCI) Schedule

• Birth BCG

• 2 months 6 in 1 + PCV*

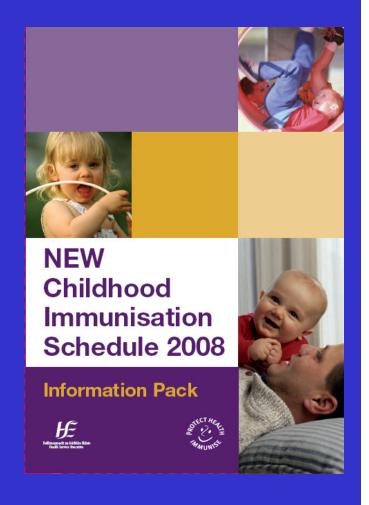
4 months 6 in 1 + Men C

6 months 6 in 1 + PCV + Men C

12 months MMR + PCV

• 13 months Men C + Hib

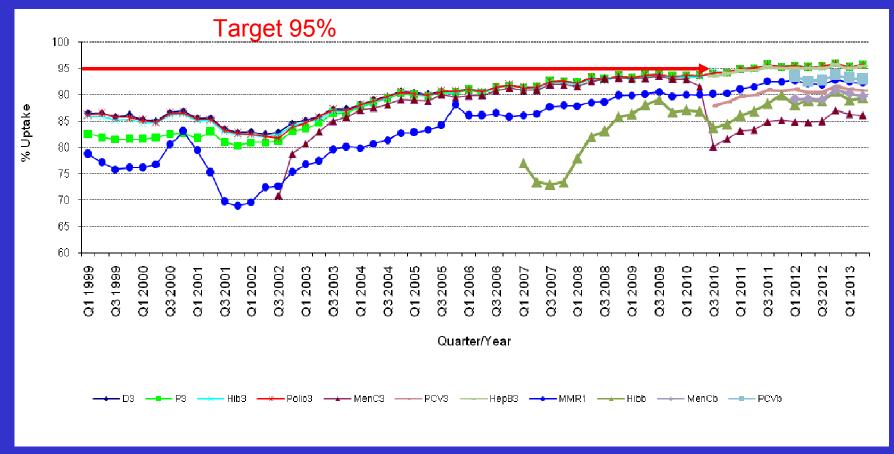
* PCV 7 introduced in September 2008 PCV13 introduced in December 2010







Vaccine uptake rate at 24 months 1999-2013

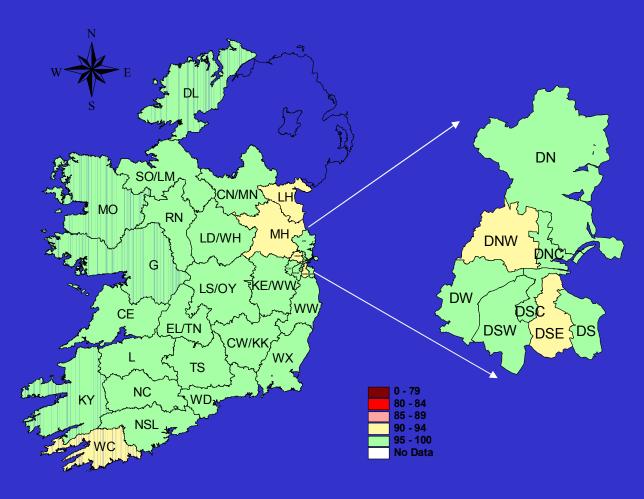


Source: HPSC





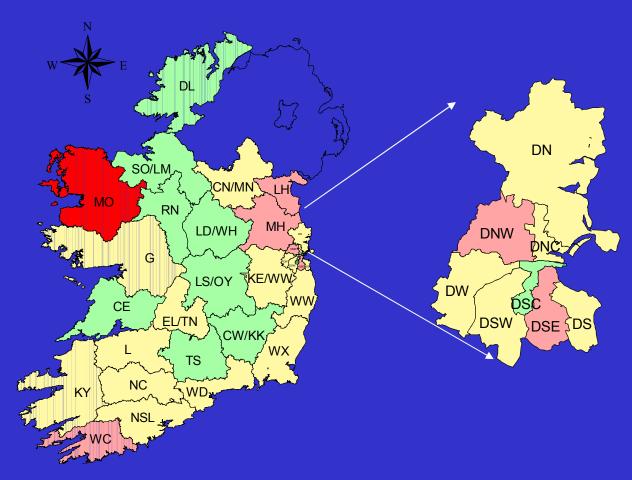
Quarter 2 2013 D3 immunisation uptake rates (%) by LHO, in those 24 months of age in Ireland and Dublin (source HPSC)







Quarter 2 2013 MMR immunisation uptake rates (%) by LHO, in those 24 months of age in Ireland and Dublin (source HPSC)

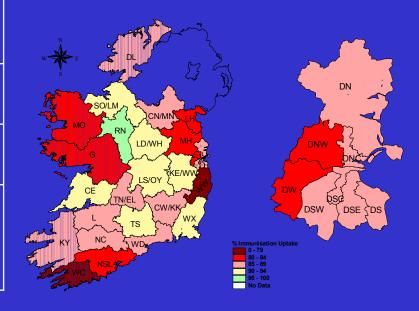






Quarter 2 2013 Men C₃ immunisation uptake rates (%) by LHO, in those 24 months of age in Ireland and Dublin (source HPSC)

	Q1 2010	Q3 2010	Q2 2013
Men C ₃	93%	80%	86%
PCV ₃	-	88%	91%
Hib _b (booster dose)	89%	84%	89%







- ? Change in schedule -> confusion
- ? 5th visit -> parents choosing some vaccines
- ? IT systems -> incorrect or delayed recording





The National Immunisation Advisory Committee (NIAC) has recommended

- certain vaccines be given at specific ages to make sure babies are protected from serious diseases at the age when they are most vulnerable
- 5 visits to ensure babies are fully protected from these diseases
- adherence to vaccine schedule
 - three vaccines to be given at the 6 month visit
 - give 6 in1 and Men C in the same limb (different sites and 2.5cms apart)
 - give PCV in the other limb





Actions

- Highlight 5 visits at every opportunity
- Give an appointment for next visit
- Send a text reminder before appointment
- Follow up defaulters as soon as possible
- Send vaccine returns on time
- Defaulters need appropriate vaccines even if they are over the recommended age*

*http://www.immunisation.ie/en/HealthcareProfessionals/Guidelinesforlateentrants/PDFFile 9494 en.pdf







Optimal and minimum recommended ages and intervals between doses

	Dose 1		Dose 1 to Dose 2		Dose 2 to Dose 3	
	Optimal	Minimum	Optimal	Minimum	Optimal	Minimum
Diphtheria (D) Tetanus (T) Pertussis(aP) IPV Hib Hepatitis B (6 in 1 vaccine)	2 months	6 weeks	2 months	4 weeks	2 months (and 4 months after Dose 1)	8 weeks (and 16 weeks after Dose 1)
Men C	2 months	6 weeks	2 months	4 weeks	2 months (and over 12 months of age)	8 weeks (and over 12 months of age)
MMR	12 months	6months	1 month	4 weeks		
PCV	2 months	6 weeks	2 months	4 weeks	2 months	8 weeks (and over 12 months of age)





Immunisation Guidelines

- Once a child is back on schedule, the optimal recommended ages and intervals should be followed for the remainder of the routine scheduled vaccines
- Children resident in Ireland should be given vaccines according to the recommended Irish schedule with the number of doses and type of vaccine dependent on the child's age





Routine physical examination & procedures

(e.g. measuring temperatures)

- not prerequisites for vaccinating persons who appear to be healthy
- ask if the proposed recipient is ill
- postpone vaccination if there is an acute severe illness.





Pain reduction

- Distraction techniques playing music, books, pretending to blow away the pain, deep breathing techniques
- Sweet-tasting liquids
 1/2 teaspoon 24-30% sugar solution prior to injection reduces crying in children < 12 months
- Breastfeeding
 effective soothing measure for infants receiving injections
 can decrease the incidence of fever
- Order of injections
 most painful last (e.g., MMR, PCV or HPV)
- Tactile stimulation
 rubbing or stroking skin near injection site with moderate intensity
 older children (4 years and older) and adults
- Administration technique

 rapid needle insertion,
 depressing the plunger over 1-2 seconds,
 withdrawal without aspiration
- Simultaneously administering vaccines at separate sites??





School Immunisation Schedule

Age (years)	Vaccine
4 -5	4 in 1 MMR
11-14	Tdap
12 (girls only) 18 (catch up)	HPV (3 dose schedule)



4 in1 Diphtheria

Tetanus Pertussis

Polio

Tdap Tetanus, low dose diphtheria/low dose pertussis

Human Papilloma Virus **HPV**

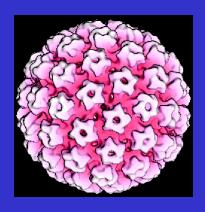




HPV vaccination programme

Gardasil (Sanofi Pasteur)

- protects against
 - HPV 16 and 18 (causes 70% cervical cancers)
 and
 - HPV 6 and 11 (causes 90% anogenital warts)
- 3 dose schedule at 0, 2 and 6 months



Computerised image of the human papillomavirus Courtesy of Dept of Pathology, University of Cambridge

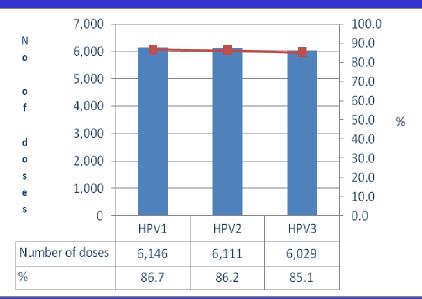




HPV vaccine uptake 2011/2012 Routine programme First years

National West





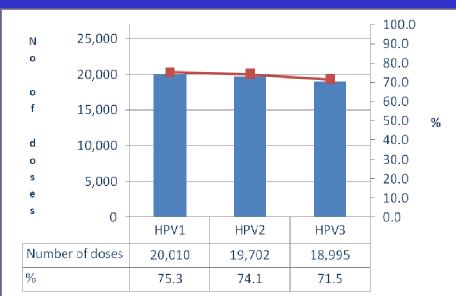
- Over 80% (85.5%) uptake achieved for 3 dose schedule
- Excellent cohort retention
- >97% girls who started dose 1 completed dose 3

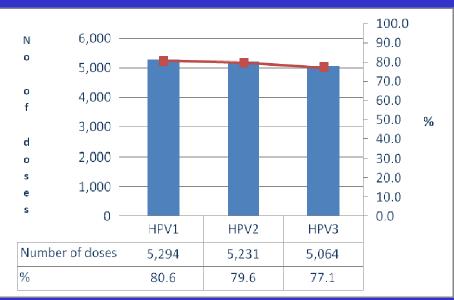




HPV vaccine uptake 2011/2012 Catch up programme Sixth years

National West





- Over 70% (71.5%) uptake achieved for 3 dose schedule
- Excellent cohort retention
- ~95% girls who started dose 1 completed dose 3





Vaccine Impact in Australia High Grade Cervical Lesions <18 years

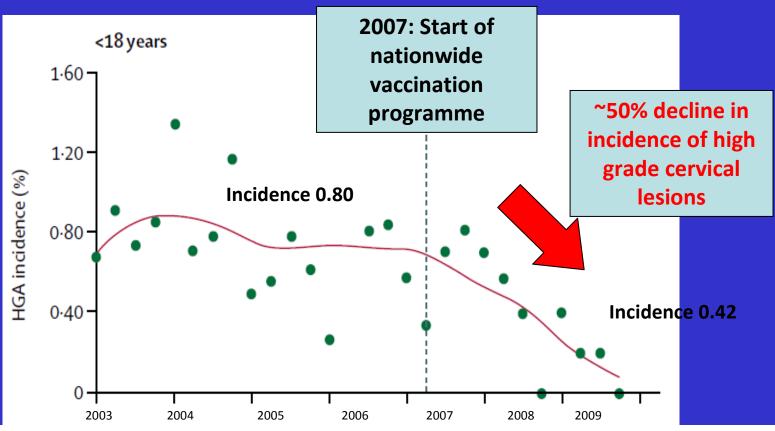


Figure 2: Incidence of high-grade cervical abnormalities, by age group

Incidence of high-grade cervical abnormalities (HGA; green dots) is the number of new diagnoses within a 3-month period per 100 women tested. Lowess smoothing trends are shown with red lines. The vertical lines, at the start of the second quarter in 2007, signify the introduction of human papillomavirus vaccination.





Seasonal influenza vaccination programme

Vaccine uptake for 65+ years with GMS card Source: HPSC



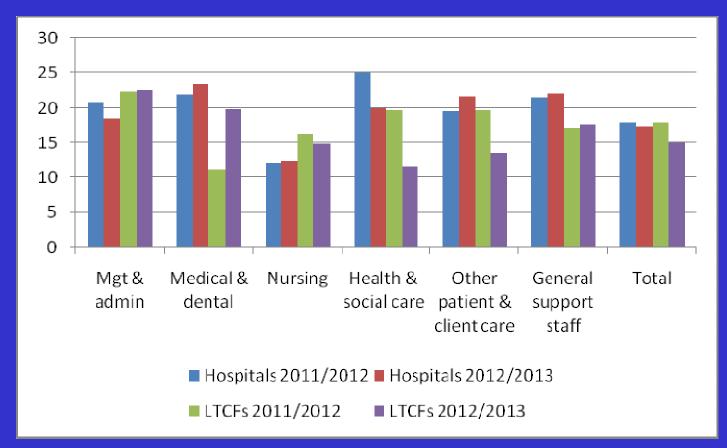
2013/2014 Annual campaign

- No change in at risk groups
- Pregnant women
- Health care workers
- Season continues until end of April





Seasonal influenza vaccination programme % vaccine uptake in health care workers



http://www.hpsc.ie/hpsc/A-Z/Respiratory/Influenza/SeasonalInfluenza/InfluenzaandHealthcareWorkers/





Why should health care workers be vaccinated?

"I'm very healthy so my immune system will protect me from flu."

"I know the symptoms and would stay at home if I got sick so I wouldn't infect my colleagues or patients."

"I got the vaccine and it gave me the flu."

- >20% HCWs get flu every year
- may only have mild symptoms and continue to work
- highly transmissible 1 day before & 5-7 days after symptoms
- healthy people can get seriously ill from flu
- vaccine contains killed viruses so cannot cause flu

http://www.immunisation.ie/en/HealthcareProfessionals/Influenza





Changes to UK schedule 2013

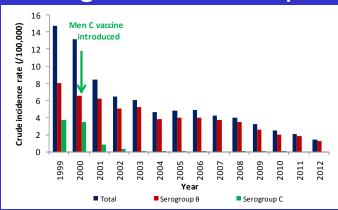
June	2 nd dose of Men C in infancy stopped
July	Rotavirus (oral) vaccine introduced 2 doses at 2 and 3 months
Sept	Men C adolescent dose introduced
	Shingles vaccine
	Routine at 70 years
	Catch up at 79 years
	Flu vaccine (LAIV – nasal spray)
	Some pre school children
	All 2-16 years (over a number of years)
???	Men B



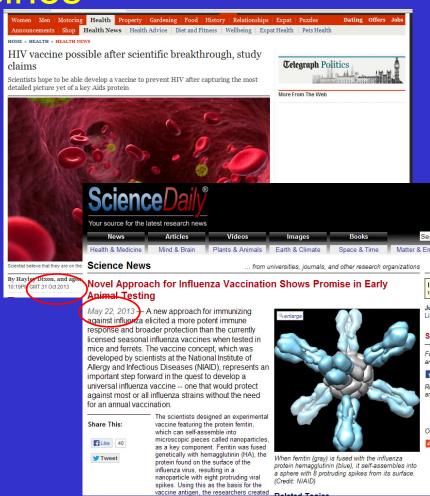


New vaccines

Meningococcal Group B



 ~ 30 new or improved vaccines anticipated in next 10 years







More information



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Protect - Prevent - Immunise

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Welcome to the Health Service Executive Immunication Website

○ WWW immunisation

Who we are Childhood Immunisation School Programme **Adult Immunisation Healthcare Professionals** Vaccine Ordering and Storage **Leaflet Translations** Ordering Materials FAQs <u>Publications</u> Glossary Conferences **Useful Websites**

** Whats New **

This site provides information on immunisation fo and Healthcare Professionals







Professionals

Hot Topic

All at risk urged to get the flu vaccine High uptake of HPV vaccine Increase in cases of Whooping Cough (pertussis)



2013 edition online only











NATIONAL IMMUNISATION ADVISORY COMMITTEE

Immunisation Guidelines for Ireland 2013 Edition



National Immunisation News

The newsletter of the HSE National Immunisation Office

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August 2013

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- Immunisation Guidelines mmunisation Website **SP** Guidelines Intake rates are still low ichools Immunisation rogramme Ionitoring Fridge emperatures /accine Deliveries upplies of Hepatitis
- accine accine Listing

FLU SEASON IS COMING

In preparation for the 2013/2014 flu season please:

- Return all flu vaccines
- · Return all expired vaccines.
- . Complete a returns form available from United Drug or at http://www.immunisation.ie/en/Downloads/PDFFile 12455 en.pdf.
- · Place these vaccines in a box

NO sharps should be included with returns.

Give your returns to the HSE national cold chain driver at your next delivery or contact the National Cold Chain Service to arrange collection if you have no delivery planned.

Expired vaccines do not require refrigeration

Further details about the 2013/2014 flu season will be sent in the coming week



Check out our website for

IMMUNISATION GUIDELINES FOR IRELAND

New 2013 Immunisation Guidelines are being drafted and will be available online later this year. Check our website for the latest update. www.immunisation.ie



w.immunisation.ie

The What's New section http://www.immunisation.ie/en/



Presentations at the 2013 Vaccine Preventable Diseases Conference





Why Immunise?

- Immunisation has saved more lives than any other public health intervention apart from the provision of clean water
- Immunisation is one of the most cost effective and safest of all health interventions





