

# Deviations to Schedule Late Entrants etc...

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[www.immunisation.ie](http://www.immunisation.ie)



Reidhmeannacht na Seirbhíse Sláinte  
Health Service Executive

# Premature Babies

- More at risk from vaccine preventable diseases
- Should have vaccinations carried out according to chronological age
- May start their vaccinations in hospital

# Interrupted Immunisation Courses

- If interrupted, resume ASAP
- Not necessary to repeat course regardless of time interval from previous incomplete course
- Hib/Men C course should be completed with the same brand (If not possible another brand may be used)
- Hib not normally recommended in those >10 years
- DTaP not normally recommended in those >10 years
- Men C not normally recommended in those > 23 years



# Why intervals between vaccines?

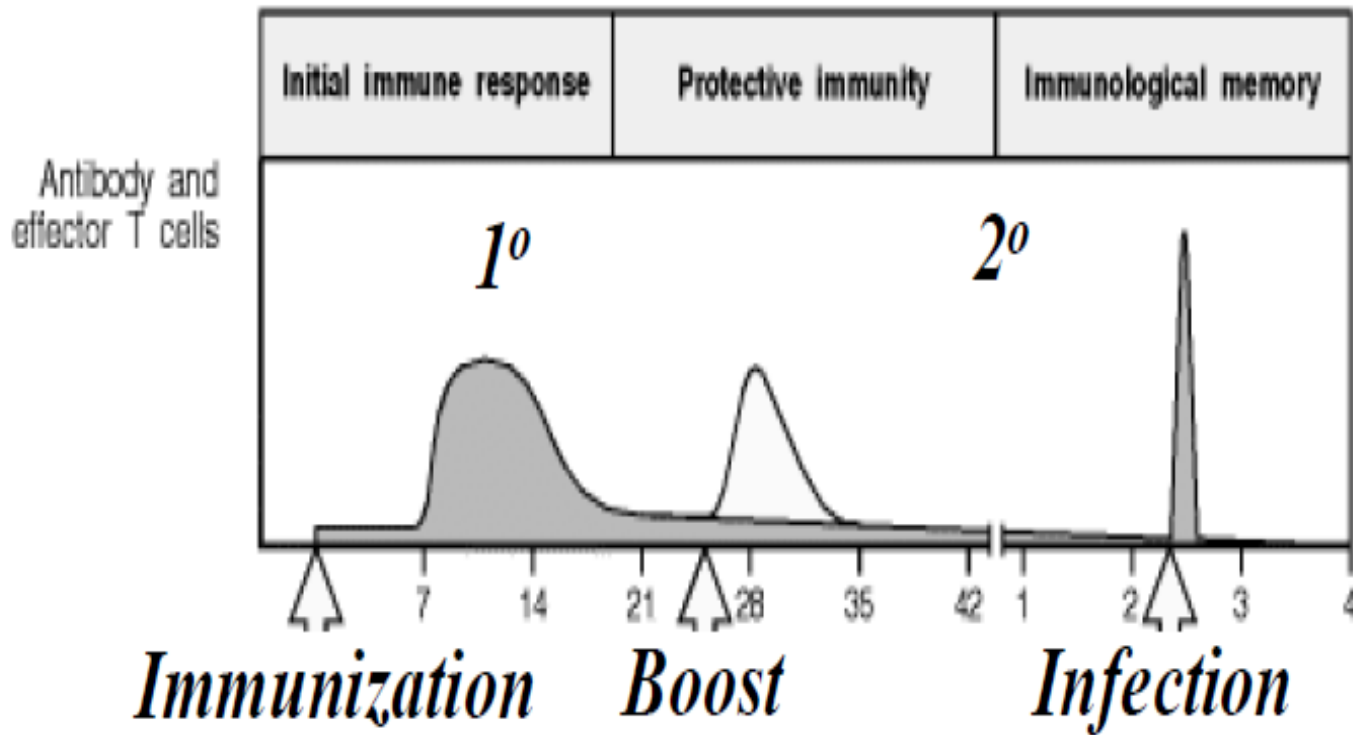
- *To allow immune response to develop*  
e.g. primary immunisation (1 month)
  - This allows next response to be a true secondary response (faster, bigger and with higher affinity IgG)
- *To avoid immune interference*
  - If another live vaccine is given while immune system is making primary response, activation of innate immune system may neutralise the second live vaccine.
  - Wait at least 4 weeks to allow the immune system to recover.

# Generation of immune response

- 4-7 days to generate immune response
- 7 days get **primary immune response**
- After ~3/52 primary immune response turned off
- Antibody producing cells - memory B cells - formed
- Memory B cells secrete antibody when same agent encountered again
- This is **secondary immune response**
- **Memory** lasts weeks / years

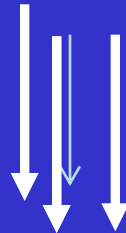


# Immune Response

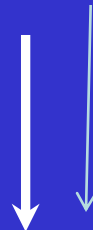


# Late entrants

Unless reliable documentation



Assume to be unimmunised



Catch-up programme

# Catch up schedule

- Review documented evidence of previous vaccinations
- Observe minimal intervals and age
- Give age appropriate schedule
  - The number of doses may reduce with age (e.g. PCV)
  - Recommended vaccines change or may be omitted
- Never restart schedule, regardless of interval (except cholera)
- May give all vaccines at one visit
- Use optimal intervals when child is back on course
- Children living in Ireland require Irish schedule



# Immunisation requirements

## Number of doses

Age (years)	DTP/IPV/Hib*	MMR	Men C	PCV
1 - <2	3	1	1	1
2- <5	3	1	1	0
5- <10	4	2	1	0
10 and older	Low dose vaccine 4 IPV 5 Tdap	2	1 (up to 23)	0

\* Hib required up to 10 years of age



# Immunisation requirements

## Interval between doses

Vaccine	Interval between doses (months)			
	1/2	2/3	3/4	4/5
DTaP/IPV/Hib	2	2	6	5 years
Tdap/IPV (low dose vaccine)	1	1	6	5 years
MMR	1			

# Catch-up schedule for children and adults – January 2016

Vaccine	4 months to <12 months	12 months to < 4 years	4 to <10 years	10 to <18 years	18 years and older
BCG	1 dose	1 dose	1 dose	1 dose (up to 15 years of age if in low risk group or up to 35 years of age if in specified high risk group)	1 dose (up to 35 years of age if in specified high risk group)
6 in 11	3 doses 2 months apart	3 doses 2 months apart	3 doses 2 months apart		
Men C	1 dose	1 dose	1 dose	1 dose (if given after 10 years of age, adolescent MenC booster not required)	1 dose (up to 23 years of age)
PCV	2 doses 2 months apart	1 dose (omit if ≥ 2 years of age <sup>2</sup> )			
MMR3		1 dose	2 doses 1 month apart	2 doses 1 month apart	2 doses <sup>4</sup> 1 month apart
Tdap/IPV				3 doses 1 month apart	1 dose <sup>4</sup>
Td/IPV					1 dose <sup>4</sup> 1 month apart (1 month after Tdap/IPV)
NOTE	<i>Continue with routine childhood immunisation schedule from 12 months.</i>	<i>Continue with routine school immunisations [4 in 1 (DTaP/IPV) at least 6 months and preferably 3 years after primary course, MMR at least 1 month after previous dose]</i>	<i>Continue with routine school immunisations [4 in 1 (DTaP/IPV) at least 6 months and preferably 3 years after primary course]</i>	<i>Boosters of Tdap/IPV 5 years after primary course and Tdap 10 years later</i>	



## Vaccine Schedule

Comparison of recommended immunisations in Ireland and Poland from birth

◀ Back to search ▶ Export as spreadsheet

			Ireland		Poland																			
<input checked="" type="checkbox"/> General recommendation			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>																		
<input checked="" type="checkbox"/> Recommendation for specific groups only			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Vaccination recommended but not funded by the National Health system																	
<input checked="" type="checkbox"/> Catch-up (e.g. if previous doses missed)			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>																		
	Birth	Weeks	Months												Years									
		6	2	3	4	5	6	7	9	12	13	14	16-18	4-5	6	10	12	13	14	15	19	45		
tuberculosis	BCG BCG <sup>3</sup>																							
rotavirus infection			ROTA <sup>4</sup>																					
diphtheria			D		D		D							D				d <sup>5</sup>				d <sup>6</sup>		
			D		D		D						D		D				d			d <sup>7</sup>		
tetanus			TT		TT		TT							TT		TT		TT				TT <sup>6</sup>		
			TT		TT		TT						TT		TT				TT			TT <sup>7</sup>		
pertussis			acP		acP		acP							acP				acP <sup>8</sup>				acP <sup>8</sup>		
			wcp <sup>8</sup>		wcp <sup>8</sup>		wcp <sup>8</sup>						wcp <sup>8</sup>		acP							acP <sup>8</sup>		
poliomyelitis			IPV		IPV		IPV							IPV		IPV								
					IPV		IPV						IPV		OPV									
Haemophilus influenzae type b infection			Hib		Hib		Hib						Hib											
			Hib		Hib		Hib						Hib											
hepatitis B			HepB		HepB		HepB																	
	HepB <sup>3</sup>		HepB		HepB		HepB		HepB															
pneumococcal disease			PCV				PCV			PCV														
meningococcal Disease <sup>1</sup>					MenC		MenC						MenC											
measles										MEAS				MEAS										
mumps										MUMPS				MUMPS			MEAS					MEAS <sup>10</sup>		
rubella										RUBE				RUBE								RUBE <sup>10</sup>		
varicella <sup>2</sup>																								
human papillomavirus infection																								
influenza																								
									</															

<http://vaccine-schedule.ecdc.europa.eu/Pages/Scheduler.aspx>

## WHO vaccine-preventable diseases: monitoring system. 2014 global summary

### Immunization schedule selection centre:

*The Regions, Countries, Vaccines lists are multiselect-enabled;  
You are free to select any amount of any combination of items.*

#### Regions list;

AFR ▲  
AMR  
EMR  
EUR  
SEAR  
WPR ▼

#### Countries list

Afghanistan ▲  
Albania  
Algeria  
Andorra  
Angola  
Antigua and Barbuda ▼

#### Vaccines list

BCG.....Bacille Calmette-Guérin vaccine  
CHOLERA.....Cholera  
Dip.....Diphtheria vaccine  
DT.....Tetanus and diphtheria toxoid childrens' dose  
DTaP.....Diphtheria and tetanus toxoid with acellular pertussis vaccine  
DTaPHepBIPV.....Diphtheria and Tetanus and Pertussis and Hepatitis B and Polio  
DTaPHepIPV.....Diphtheria and tetanus toxoid with acellular pertussis, HepB and IPV vaccine  
DTaPHib.....Diphtheria and tetanus toxoid with acellular pertussis and Hib vaccine  
DTaPHibHep.....Diphtheria and tetanus toxoid with acellular pertussis, Hib and HepB vaccine  
DTaPHibHepB.....Diphtheria and tetanus toxoid with acellular pertussis, Hib and HepB vaccine  
DTaPHibHepIPV.....Hexavalent diphtheria, tetanus toxoid with acellular pertussis, Hib, hepatitis B and IPV vaccine  
DTaPHibIPV.....Diphtheria and tetanus toxoid with acellular pertussis, Hib and IPV vaccine

↑Select all vaccines

Unselect all vaccines↑

OK

[http://apps.who.int/immunization\\_monitoring/globalsummary/schedules](http://apps.who.int/immunization_monitoring/globalsummary/schedules)

# General Issues

- Accelerated Primary Schedule recommended for children not immunised in 1<sup>st</sup> year of life
- 6in1, Men C, MMR can be given at the same visit – minimum 2.5cms apart
- Always give completed parent record
- If serious local AEFI, assess before additional doses of that vaccine are given
- Adverse reactions should be notified to HPRA



# Summary

- No need to restart incomplete course
- Access information about schedules in other countries via websites
- Vaccinate late entrants according to new schedule

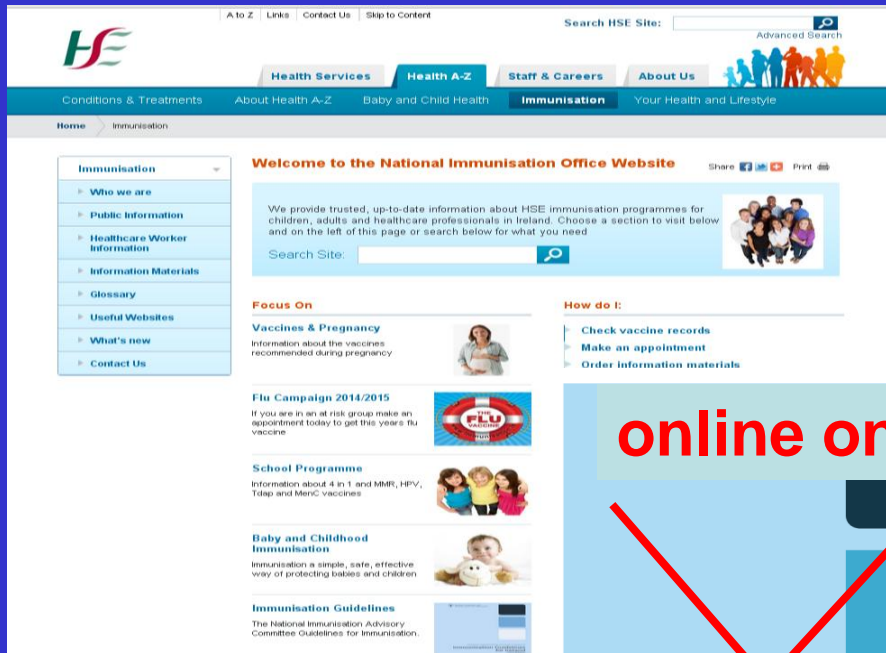
# Summary

If in doubt, give them all





# More information



<http://www.immunisation.ie/en/HealthcareProfessionals/ImmunisationGuidelines/>

[www.immunisation.ie](http://www.immunisation.ie)

September 2015

## National Immunisation News

The newsletter of the HSE National Immunisation Office

### Flu Campaign 2015/2016

The World Health Organization has recommended that the seasonal influenza vaccines for the 2015/2016 season (Northern Hemisphere winter) contain:

- an A/California/7/2009 (H1N1)pdm09-like virus;
- an A/Switzerland/9715293/2013 (H3N2)-like virus;
- an B/Phuket/3073/2013-like virus

The flu vaccine for 2015/2016 is **Inactivated Influenza vaccine (Split Virion) BP** manufactured by Sanofi Pasteur.

The vaccine is delivered in packs of ten pre-filled syringes with attached needles.

Seasonal influenza vaccine is strongly recommended for

- Persons aged 65 and older
- Those aged 6 months and older with a long-term health condition including
  - acute coronary syndrome (new for 2015/2016)
  - chronic obstructive pulmonary disease (new for 2015/2016)
- Pregnant women (vaccine can be given at any stage of pregnancy)
- Healthcare workers including both hospital and GP practice staff
- Residents of nursing homes and other long stay institutions
- Carers
- People with regular contact with pigs, poultry or water fowl.

**People in the at risk groups should be vaccinated in September/October but can be vaccinated up until the end of April 2016.**

Further information about the influenza vaccination campaign including a frequently asked questions section and a full list of the at risk groups is available [www.immunisation.ie](http://www.immunisation.ie)

Additional details can be found in the NEW Influenza chapter of the Immunisation Guidelines for Ireland which is available at <http://www.hse.ie/eng/health/immunisation/hcpinfo/guidelines/chapter11.pdf>

To order additional information materials please visit [www.healthpromotion.ie](http://www.healthpromotion.ie) and set up an account if you do not have one already to order larger quantities of leaflets and posters.

**Delivery dates can be checked on your calendar. Please order fortnightly online (deliveries started on Monday 14th September).**

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[www.immunisation.ie](http://www.immunisation.ie)



# More information

- Catch up vaccinations

<http://www.hse.ie/eng/health/immunisation/hcpinfo/frequentlyaskedquestions/catchupvacc/catchupvacc.html>

- Chapter 2 of the Immunisation Guidelines

<http://www.hse.ie/eng/health/immunisation/hcpinfo/guidelines/chapter2.pdf>



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