

Immunisation Guidelines 2008

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On behalf of NIAC

Vaccination coverage required to block transmission

infection	age at infection	inter epidemic period	R₀	coverage required (%)
Measles	4-5	2	15-17	92-95
Pertussis	4-5	3-4	15-17	92-95
Mumps	6-7	3	10-12	90-92
Rubella	9-10	3-5	7-8	85-87
Diphtheria	11-14	4-6	5-6	80-85
Polio	12-15	3-5	5-6	80-85

Changes 2008 (1)

- Format-A3
- Contraindications
- Needle size -25mm
- Additional vaccines
- Available vaccines list-www.imb.ie

Changes 2008 (2)

- Anaphylaxis (mgt., vs. faint)
- Catch-up immunisation
- Immunisation of Immunocompromised
- Storage
- Hep B- interpretation of serology
- Tetanus- post-wound treatment
- Rabies chapter
- All Chapters updated

Additional recommended vaccines

Hep B

PCV

MenC booster

Adolescent pertussis booster

Reasons for Hep B vaccine

- Serious disease
- Safe, effective vaccine
- Fits into schedule
- Cost-effective

Hepatitis B effects

- Younger-mostly asymptomatic
- Older-50% symptomatic
- Chronic infection-babies 90%
 - 1-5yo -30%
 - >5yo -6%

Death from chronic liver disease,
carcinoma in 25% ch. infected

Hepatitis B transmission

- Blood, body fluids
- Unprotected sex
- Mother-infant
- Needles
- Toothbrush
- HCWs, child care

Reasons for Pneumococcal (PCV) vaccine

- Common illness, potentially serious
- Safe, effective vaccine
- Fits into schedule
- Cost-effective

Pneumococcal Infection

- Acute otitis media
- Pneumonia
- Meningitis
- Cellulitis, arthritis, carditis, osteomyelitis
- >90 serotypes, 23 common, 7 more common (75% of infections)

Reasons for Adolescent Pertussis vaccine

- Burden of disease- 50% cases >12yrs
90% deaths<6/12
- Immunity wanes after vaccine, infection
- Safe, effective vaccine
- Fits into schedule

Pertussis Notifications, Ireland 2001-2006

- Total 540
 - <10yo 453
 - Under 1 yr 236
 - <6/12 191
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- Younger-typical symptoms, better recognition
 - Significantly underdiagnosed

Schedule 2008

- Birth BCG
- 2mths DTaP/IPV/Hib/HepB +PCV
- 4mths DTaP/IPV/Hib/HepB +MenC
- 6mths DTaP/IPV/Hib/HepB +PCV +MenC

- 12mths MMR + PCV
- 13mths MenC +Hib

- 4-5yrs DTaP/IPV + MMR
- 11-14yrs Tdap