Immunization Rates: Methods and Trends

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Forum on Immunizing in Schools
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Methods

• School-based Immunization Coverage Assessment Advisory Group

• Data sources:
  – Paper reporting by HSDAs or HAs

• Frequency:
  – Annual
Methods

• **Measure:**
  – Percent of enrolled students who were up-to-date for the vaccine in question as of June 30

• **Population:**
  – Number of students enrolled as of June 30
    • Class lists
    • iPHIS
Methods

Kindergarten:

- DaPTP → 4th or 5th dose after 4th birthday
- Measles → 2 doses
- Mumps/Rubella → 1 dose
- Hepatitis B → 3 doses
- Varicella → previous disease or 1 dose
Methods

Grade 6

– Hepatitis B → 2-3 doses
– Meningococcal C → 1 dose
– Varicella → previous disease or 1 dose

Grade 9

– Td booster
– aP booster
Communicating Results

• School-Based Immunization Coverage Assessment Advisory Group
  
• www.bcccdc.org
  – PartnerNet
  – Public access
Limitations

1. Ascertaining primary series
2. Incomplete disease/vaccine history
3. Changing definitions of up-to-date
School-Based Immunization Coverage Trends
Kindergarten: DaPTP

School Year Ending June 30

Definition change
Kindergarten: Measles/Mumps/Rubella

School Year Ending June 30

- MMR
- Measles
- Mumps/Rubella

%
Kindergarten/Grade 6: Varicella

School Year Ending June 30

2005 2006 2007

Definition change

%
Grade 6: Hepatitis B

School Year Ending June 30

Change to 2 doses
Grade 6: Meningococcal C

School Year Ending June 30

2004

2005

2006

2007
Grade 9: Tetanus/Diphtheria/Pertussis

School Year Ending June 30

- Tetanus/Diphtheria
- Acellular Pertussis

<table>
<thead>
<tr>
<th>Year</th>
<th>Tetanus/Diphtheria</th>
<th>Acellular Pertussis</th>
</tr>
</thead>
<tbody>
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<td>2002</td>
<td>90</td>
<td>80</td>
</tr>
<tr>
<td>2003</td>
<td>90</td>
<td>80</td>
</tr>
<tr>
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<td>2005</td>
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<td>80</td>
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<tr>
<td>2007</td>
<td>90</td>
<td>80</td>
</tr>
</tbody>
</table>
Regional Variation, 2007

School Year Ending June 30

- IHA
- FHA
- VCH
- VIHA
- NHA

Kindergarten - DaPTP
Grade 6 - Men C

%
Future Directions

1. Immunization registry-based assessment
DaPTP Coverage by Health Authority, 2007

- IHA
- FHA
- NSCG
- VIHA
- NHA

The chart illustrates the coverage percentages for each health authority, comparing iPHIS and Aggregate data.
Future Directions

1. Immunization registry-based assessment

2. Vaccine changes
   – Grade 12 Meningococcal-C
   – Kindergarten Meningococcal-C
   – Grade 6 and 9 HPV
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