Breastfeeding Rates among U.S. Children, CDC National Immunization Survey Data

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Teleconference Objectives

• Summarize National Immunization Survey (NIS) breastfeeding rates, released August 2008

• Highlight new indicator on formula supplementation

• Discuss yearly release of provisional data

• Discuss year to year fluctuation of breastfeeding rates
NIS Breastfeeding Data

- Interviews conducted July 2001 – December 2007
- Caregivers of 19-35 month old children
- Children born 1999-2005
- Data on a birth cohort collected over 3 survey years

National Immunization Survey
Birth Months Represented Each Survey Year

<table>
<thead>
<tr>
<th>NIS Survey Year</th>
<th>Birth Months</th>
<th>Birth Cohort 2004</th>
<th>Birth Cohort 2005</th>
</tr>
</thead>
<tbody>
<tr>
<td>2005</td>
<td>2/02-5/04</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>2006</td>
<td>2/03-5/05</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>2007</td>
<td>2/04-5/06</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>2008</td>
<td>2/05-5/07</td>
<td></td>
<td>X</td>
</tr>
</tbody>
</table>
Percent of U.S. Children who are Breastfed, by Birth Year, National Immunization Survey

Breastfeeding Rates Among Children Born in 2005 Fall Short of Health People 2010

Healthy People 2010 Objectives
Initiation and Duration of Breastfeeding
- 75% in early postpartum period: 74.2 ± 1.2
- 50% at 6 months of age: 43.1 ± 1.3
- 25% at 12 months of age: 21.4 ± 1.1

Exclusive Breastfeeding
- 40% through 3 months of age: 31.5 ± 1.3
- 17% through 6 months of age: 11.9 ± 0.9
NIS Breastfeeding Rates among 2005 Births differ by Race and Ethnicity

NIS Breastfeeding Rates among 2005 Births differ by Poverty Index Ratio
Exclusive Breastfeeding through 3 Months among Children born in 2005

Use of Infant Formula while Breastfeeding

- American Academy of Pediatrics recommends exclusive breastfeeding for first 6 months
- Protection against lower respiratory infections, acute otitis media, atopic dermatitis, and childhood obesity
- 2006 revision to NIS questions included separate question on formula use
Use of Infant Formula among Breastfed Infants Born in 2005

Formula supplementation % ± Half 95%C.I.

Before 2 days 24.7 ± 1.4
Before 3 months of age 38.3 ± 1.8
Before 6 months of age 45.9 ± 2.1

Percent of U.S. Breastfed Children Supplemented with Formula, by Birth Year, National Immunization Survey
Yearly Update of Provisional Data

• Provisional data on a birth year released when approximately 2/3 of cohort interviewed

• August 2007, released provisional data on children born in 2004

• Interviews completed November 2007

• Final data for 2004 births released August 2008

Yearly Update of Provisional Data

• While final breastfeeding rates differ from provisional rates, the difference was within the margin of error for all states

• Montana’s 2004 breastfeeding initiation rate:
  provisional:   87.7 ± 5.5
  final rate:   83.4 ± 4.7
Update of Breastfeeding Rates for 2003 Birth Year

- 2003 birth cohort was final in August of 2007
- Rates were re-calculated when new sampling weights for 2006 survey year became available in 2008
- Difference in 2003 rates is very slight
- 2004 birth cohort also affected by revision of survey weights

NIS Breastfeeding Rates

<table>
<thead>
<tr>
<th>Breastfeeding Indicator</th>
<th>2004 Rate % ± Half C.I.</th>
<th>2005 Rate % ± Half C.I.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Initiation</td>
<td>73.1 ± 0.8</td>
<td>74.2 ± 1.2</td>
</tr>
<tr>
<td>At 6 months</td>
<td>42.1 ± 0.9</td>
<td>43.1 ± 1.3</td>
</tr>
<tr>
<td>At 12 months</td>
<td>21.4 ± 0.8</td>
<td>21.4 ± 1.1</td>
</tr>
</tbody>
</table>
Yearly Fluctuation of Breastfeeding Initiation Rates

<table>
<thead>
<tr>
<th>Location</th>
<th>2004 Rate</th>
<th>2005 Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>% ± Half C.I.</td>
<td>% ± Half C.I.</td>
</tr>
<tr>
<td>Maine</td>
<td>75.4 ± 5.6</td>
<td>71.7 ± 7.5</td>
</tr>
<tr>
<td>Georgia</td>
<td>66.0 ± 5.5</td>
<td>72.0 ± 7.6</td>
</tr>
</tbody>
</table>

Monitoring Progress in Breastfeeding Rates

- Consider confidence intervals around rates
- Evaluate trend over several birth years
- Revisions to website being discussed
- We welcome your thoughts
Thank You!

If you have questions, please contact:
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CDC Breastfeeding Information:
http://www.cdc.gov/breastfeeding