Alaska Immunization Update
May 10, 2011

Laurel Wood
Alaska Immunization Program

* 4/3/1/3/3/1 – 4 DTaP/ 3 polio/ 1 MMR/ 3 Hib/ 3 Hep B/ 1 Varicella

+ 4/3/1/0/3/1/4 – 2009 assessment ADDS pneumococcal vaccine (“4”) & EXCLUDES Hib (“0”)
(vaccine shortage negatively impacted national coverage for Hib)

Source: MMWR Surveillance Summary, Vol. 60, No. 4, April 29, 2011

Source: MMWR Surveillance Summary, Vol. 60, No. 4, April 29, 2011
### Reported Vaccine-Preventable Diseases, Alaska, 2006–2010

<table>
<thead>
<tr>
<th>Disease</th>
<th>2006</th>
<th>2007</th>
<th>2008</th>
<th>2009</th>
<th>2010</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diphtheria</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Haemophilus influenzae invasive disease*</td>
<td>12</td>
<td>16</td>
<td>21</td>
<td>21</td>
<td>27</td>
</tr>
<tr>
<td>Hepatitis A</td>
<td>2</td>
<td>5</td>
<td>5</td>
<td>2</td>
<td>4</td>
</tr>
<tr>
<td>Hepatitis B</td>
<td>8</td>
<td>9</td>
<td>10</td>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td>Measles</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Meningococcal invasive disease*</td>
<td>4</td>
<td>3</td>
<td>8</td>
<td>6</td>
<td>1</td>
</tr>
<tr>
<td>Mumps</td>
<td>3</td>
<td>2</td>
<td>5</td>
<td>6</td>
<td>1</td>
</tr>
<tr>
<td>Pertussis</td>
<td>91</td>
<td>89</td>
<td>277</td>
<td>58</td>
<td>44</td>
</tr>
<tr>
<td>Pneumococcal invasive disease*</td>
<td>--</td>
<td>149</td>
<td>158</td>
<td>151</td>
<td>110</td>
</tr>
<tr>
<td>Polio</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Rubella</td>
<td>0</td>
<td>0</td>
<td>1</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Tetanus</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Varicella</td>
<td>--</td>
<td>43</td>
<td>76</td>
<td>57</td>
<td>45</td>
</tr>
</tbody>
</table>

* Not all reported types/groups are vaccine-preventable
It’s a sign of “The Times”

The New York Times

Public Health Risk Seen as Parents Reject Vaccines

- March 21, 2008

The Seattle Times

Europe, especially France, hit by measles outbreak

Europe, especially France, has been hit by a major outbreak of measles, which the U.N. health agency is blaming on the failure to vaccinate all children.

- April 21, 2011

Los Angeles Times

California schools' risks rise as vaccinations drop

A Times analysis finds hundreds of campuses, which tend to be in more affluent areas, at risk for childhood disease outbreaks. Parents seem to fear shots more than mumps or measles.

- March 29, 2009
Outbreaks of childhood diseases are more likely at about 200 Southern California schools in large part because of parents choosing not to immunize. A Times analysis identified schools as at risk if at least 7.5% of entering kindergartners this school year were exempted from immunization. Most are schools in affluent areas.
California
Exemptors were 35 times more likely to contract measles than were vaccinated persons...

Colorado
Exemptors were, on average, 22 times more likely to acquire measles and 6 times more likely to acquire pertussis than vaccinated children...

In children of day care and primary school age, in whom contact rates and susceptibility are higher, these risks were approximately 62-fold (measles) and 16-fold (pertussis) greater...


### Current Immunization Requirements for Alaska Kindergarten Students

<table>
<thead>
<tr>
<th>Vaccine</th>
<th># Doses Required *</th>
</tr>
</thead>
<tbody>
<tr>
<td>DTaP</td>
<td>5</td>
</tr>
<tr>
<td>Polio</td>
<td>3</td>
</tr>
<tr>
<td>MMR</td>
<td>2</td>
</tr>
<tr>
<td>Hepatitis A</td>
<td>2</td>
</tr>
<tr>
<td>Hepatitis B</td>
<td>3</td>
</tr>
<tr>
<td>Varicella</td>
<td>2</td>
</tr>
</tbody>
</table>

* Exact number of doses may vary depending upon child’s vaccine history
Alaska Immunization Regulations 4 AAC 06.055 and 7 AAC 57.550 require that all children in Alaska public/private schools, certified preschools, and licensed child care facilities be immunized, unless he/she is exempt due to medical contraindications, disease history, or religious reasons.

### ALASKA IMMUNIZATION REQUIREMENTS
#### MEDICAL EXEMPTION

In my professional opinion, the following immunizations would be injurious to the health of the above named child or members of the child’s family or household.

**Check “all vaccines” or appropriate**

<table>
<thead>
<tr>
<th></th>
<th>DISEASE HISTORY</th>
</tr>
</thead>
<tbody>
<tr>
<td>All vaccines</td>
<td>Diphtheria</td>
</tr>
<tr>
<td></td>
<td>Tetanus</td>
</tr>
<tr>
<td>Diphtheria</td>
<td>Varicella</td>
</tr>
<tr>
<td>Measles</td>
<td>Mumps</td>
</tr>
<tr>
<td>Polio</td>
<td>Rubella</td>
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<td>Hepatitis A</td>
</tr>
<tr>
<td></td>
<td>Hepatitis B</td>
</tr>
</tbody>
</table>

For Pertussis & Hib – History of disease does not infer immunity. Vaccination is recommended.

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**NAME [Please Print] of MD, DO, ANP or PA**

**SIGNATURE of MD, DO, ANP or PA**

Check one: [ ] MD [ ] DO [ ] ANP [ ] PA

Date

Clinic Name

Phone Number
Religious exemption requests must be signed by the child’s parent or guardian and contain the wording found in the Alaska Administrative Code 7 AAC 57.550 for child care affirming that immunization conflicts with the tenets and practices of the church or religious denomination of which the parent or guardian is a member; or 4 AAC 06.055 for school affirming that immunization conflicts with the tenets and practices of the church or religious denomination of which the applicant is a member.

**NOTE:** Personal or philosophical exemptions are not allowed under Alaska regulations.

**To be completed by the child’s parent or guardian.**

I/we affirm that immunization conflicts with the tenets and practices of the church or religious denomination of which the applicant/parent/guardian is a member.

_________________________________________  ______________________  ________________

Signature of Parent or Guardian              Date                      Telephone

State of _________________________________

Judicial District __________________________ SS.

The Forgoing Instrument was acknowledged before me by

_________________________________________ on this ______ day of

_________________________________________, 20________.

Witness my hand and seal.
Percent of Alaska Kindergarten Students with a Medical or Religious Exemption to ≥1 Required Vaccine, SY 02-03 thru 09-10
Percent of Alaska Kindergarten Students with a Religious Exemption to ≥1 Required Vaccine, Public & Private Schools, SY 08-09 and 09-10

<table>
<thead>
<tr>
<th>School Year</th>
<th>Public</th>
<th>Private</th>
</tr>
</thead>
<tbody>
<tr>
<td>08-09</td>
<td>8,726</td>
<td>438</td>
</tr>
<tr>
<td>09-10</td>
<td>7,098</td>
<td>266</td>
</tr>
</tbody>
</table>
Improving Immunization Coverage Rates in Alaska’s Children
What is Public Health Doing to Increase Coverage Rates?

- Established task force for systematic review
- Plans developed to:
  - Strengthen partnerships with health care providers
  - Survey parents to determine perceived barriers to immunizations
  - Increase educational opportunities for providers and parents
  - Use VacTrAK for development and publications of coverage rates for specific communities
- Review exemption procedures?
• Implement reminder/recall systems
  - Remind parents/patients when vaccines due
  - Call back for missed appointments

• Reduce missed opportunities to vaccinate
  - Review record during EACH encounter
  - Be knowledgeable about contraindications

• Maintain accurate and up-to-date records
  - Enroll in VacTrAK & use as QA tool

• Educate concerned parents
  - Discuss risks/benefits
  - Provide good website information

• Establish environment in which entire clinic team is committed to improving immunizations
Information Sources about Vaccinating Children

- **PEDIATRICIAN** (85%/79)
- **SPouse** (21%/83)
- **CDC** (21%/70)
- **NURSE** (25%/68)
- **GRANDPARENTS** (16%/73)
- **SCHOOL OFFICIALS** (17%/61)
- **PUBLIC HEALTH OFFICIALS** (22%/67)
- **WEBSITES** (24%/53)
- **NEWSPAPERS/MAGAZINES** (12%/50)
- **NEARBY FAMILY** (16%/61)
- **PARENTING EXPERTS** (10%/59)
- **BOOKS** (9%/65)
- **OTHER FAMILY** (9%/65)
- **NON-GOV'T HEALTH ORG.** (7%/57)
- **OTHER LOCAL DR./HOSP** (8%/61)
- **ALTERNATIVE HEALTH EXPERT** (5%/53)
- **CELEBRITIES** (2%/43)
- **BLOGS/ONLINE FORUM** (5%/49)
- **TV/RADIO** (11%/48)
- **FRIENDS** (11%/50)

Values in parentheses:

- % Using / Average Influence Rating

*Among Users*