To: Director of IHS Maternal & Child Health Program  
IHS Area Chief Medical Officers  
IHS Area Immunization Coordinators  
Tribal Epidemiology Centers  

From: Amy Groom, IHS Immunization Program Manager  

Date: June 7, 2017  

The Indian Health Service, Tribal and Urban Indian immunization programs report on the immunization status of American Indian and Alaska Native (AI/AN) children 3-27 months of age, 19 – 35 months of age, Adolescents 13 – 17 years of age and Adults. They also report on influenza vaccine coverage for all age groups. These reports are submitted to the IHS Division of Epidemiology and Disease Prevention on a quarterly basis. 

### 3-27 Month Old Report

The 3 – 27 month report is designed to help programs ensure timely vaccination and identify children who may be falling behind so they can be brought up to date. The criteria listed below are used to monitor coverage in the following age groups:

<table>
<thead>
<tr>
<th>Age Group</th>
<th>Vaccines</th>
<th>Age Group</th>
<th>Vaccines</th>
</tr>
</thead>
</table>
| **3-4 months**  | • DTAP1  
• IPV 1  
• Hib 1  
• Hepatitis B 1  
• PCV1  
• (ROTA1)† | **16-18 months** | • DTAP 3  
• IPV 2  
• MMR 1  
• Hib 3  
• Hepatitis B 2  
• Varicella  
• PCV4  
• (ROTA3)† |
| **5-6 Months**  | • DTAP 2  
• IPV 2  
• Hib 2  
• Hepatitis B 2  
• PCV2  
• (ROTA2)† | **19-23 months** | • DTAP 4  
• IPV 3  
• MMR 1  
• Hib 3  
• Hepatitis B 3  
• Varicella  
• PCV4  
• (ROTA3)† |
| **7-15 months** | • DTAP 3  
• IPV 2  
• Hib 2  
• Hepatitis B 2  
• PCV3  
• (ROTA3)† | **24-27 months** | • DTAP 4  
• IPV 3  
• MMR 1  
• Hib 3  
• Hepatitis B 3  
• Varicella  
• PCV4  
• (ROTA3)†  
• (Hepatitis A1)† |

† Not included in Age appropriate immunization coverage calculations

Rotavirus vaccine (ROTA) and hepatitis A, though recommended, are not included in overall age appropriate coverage calculations. Data on ROTA and hepatitis A vaccine coverage are reported where available.
3-27 Month Old Report

For FY 2017 Q2, 12 IHS Areas submitted immunization reports from IHS, Tribal, and Urban Indian health centers (I/T/U). This composite report provides information on the immunization status of 27,227 children 3-27 months old. Of these, 18,092 or 66% received all age-appropriate vaccinations compared to 65% (18,082/27,706) of children 3-27 months in the 1st Quarter of FY 2017 [Figure 1]. Coverage by Area is included in the spreadsheet.

Figure 1

Age Appropriate Immunization Coverage
3 - 27 months
FY04 Q1 - FY17 Q2, IHS National

VAR and PCV4 added to age appropriate coverage

Age appropriate coverage

FY04 Q1 FY04 Q3 FY05 Q1 FY05 Q3 FY06 Q1 FY06 Q3 FY07 Q1 FY07 Q3 FY08 Q1 FY08 Q3 FY09 Q1 FY09 Q3 FY10 Q1 FY10 Q3 FY11 Q1 FY11 Q3 FY12 Q1 FY12 Q3 FY13 Q1 FY13 Q3 FY14 Q1 FY14 Q3 FY15 Q1 FY15 Q3 FY16 Q1 FY16 Q3 FY17 Q1
Two Year Old Report

The Two year old reports (children 19-35 months old) are used to monitor progress towards the GPRA childhood immunization indicator.

Starting in 2011, the vaccines series measure used to monitor coverage in this age group is, the 4:3:1:3:1:4 (4 DTaP, 3 IPV, 1 MMR, 3 Hib, 3 Hep B, 1 VAR, 4 PCV) series. The HP 2020 goal is 80% with the 4:3:1:3:1:4 series, and 90% coverage with each individual vaccine in the series.

4:3:1:3:1:4 Series
In FY 2017 Q2, 12 IHS Areas completed reports. Overall 64% (13,699/21,462) of two year olds had completed the 4:3:1:3:1:4 vaccine series compared to 68% (13,597/20,134) in FY 2017 Q1. Coverage for both series by Area is included in the spreadsheet.

Figure 2

4:3:1:3:1:4 Coverage
2 Year Olds
FY09 Q1 - FY17 Q2, IHS National

![Graph showing 4:3:1:3:1:4 coverage from FY09 Q1 to FY17 Q2 for IHS National. The graph indicates HP 2020 Goal – 80% coverage for the series.]
Adolescent Report

This report collects data on adolescents 13 – 17 years who meet the “Active Clinical User” definition (e.g. 2 visits in the last 3 years) and is designed to monitor uptake of recommended adolescent vaccines (e.g. tetanus toxoid, reduced diphtheria toxoid and acellular pertussis [Tdap], meningococcal conjugate [MCV4], and human papillomavirus [HPV] vaccines) and monitor coverage in the adolescent population with the following recommended childhood vaccines: 1 dose of Td or Tdap, 3 doses of hepatitis B, 2 doses of MMR, and 2 doses of Varicella/Hx of chickenpox. A summary of immunization coverage for 13 year olds and 13 –17 year olds with these vaccines is included below.

Immunization Coverage for 13 year olds

For FY 2017 Q2, the 12 IHS Areas combined reported on 14,736 thirteen year olds compared to 14,418 thirteen year olds in the FY 2017 Q1 report.

<table>
<thead>
<tr>
<th>Vaccine</th>
<th>IHS All Areas coverage</th>
<th>Range of coverage</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 dose of Tdap</td>
<td>88% (12,950/14,736)</td>
<td>83% - 99%</td>
</tr>
<tr>
<td>1 dose of MCV4</td>
<td>86% (12,714/14,736)</td>
<td>71% - 99%</td>
</tr>
<tr>
<td>1 dose of HPV</td>
<td>78% (11,539/14,776)</td>
<td>60% - 95%</td>
</tr>
<tr>
<td>1 dose of Tdap/Td - 1 dose of MCV4 – 3 doses of HPV</td>
<td>37% (5,494/14,736)</td>
<td>23% - 59%</td>
</tr>
</tbody>
</table>

For FY 2017 Q2, 88% received 1 dose of Tdap vaccine, 86% had received 1 dose of MCV4 vaccine, 78% received 1 dose of HPV vaccine and 37% received 1 dose of Tdap/Td- 1 dose of MCV4-3 doses of HPV [Figure 3]. Coverage by Area is included in the spreadsheet.

Figure 3

Adolescent Vaccines Coverage
13 year olds
FY10 Q4 - FY17 Q2, IHS National
Immunization Coverage for 13 – 17 year olds

For FY 2017 Q2, the 12 IHS Areas combined reported on 71,329 13–17 year olds compared to the FY 2017 Q1 report which included 69,991 13–17 year olds.

<table>
<thead>
<tr>
<th>Vaccines</th>
<th>IHS All Areas coverage</th>
<th>Range of coverage</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 doses of Hepatitis B</td>
<td>96%</td>
<td>68,643/71,329</td>
</tr>
<tr>
<td></td>
<td>(90% - 99%)</td>
<td></td>
</tr>
<tr>
<td>2 doses of MMR vaccine</td>
<td>95%</td>
<td>67,959/71,329</td>
</tr>
<tr>
<td></td>
<td>(92% - 99%)</td>
<td></td>
</tr>
<tr>
<td>2 doses of Varicella vaccine or had a documented history of chickenpox</td>
<td>94%</td>
<td>66,918/71,329</td>
</tr>
<tr>
<td>1 dose of Tdap vaccine</td>
<td>92%</td>
<td>65,385/71,329</td>
</tr>
<tr>
<td></td>
<td>(63% - 99%)</td>
<td></td>
</tr>
<tr>
<td>1 dose of MCV4 vaccine</td>
<td>90%</td>
<td>63,980/71,329</td>
</tr>
<tr>
<td></td>
<td>(74% - 99%)</td>
<td></td>
</tr>
<tr>
<td>1 dose of HPV vaccine</td>
<td>83%</td>
<td>59,088/71,329</td>
</tr>
<tr>
<td></td>
<td>(63% - 96%)</td>
<td></td>
</tr>
<tr>
<td>1 dose of Tdap/Td- 1 dose of MCV4-3 doses of HPV</td>
<td>55%</td>
<td>39,223/71,329</td>
</tr>
</tbody>
</table>

For FY 2017 Q2, 92% received 1 dose of Tdap vaccine, 90% had received 1 dose of MCV4 vaccine, 83% received 1 dose of HPV vaccine and 55% received 1 dose of Tdap/Td- 1 dose of MCV4-3 doses of HPV [Figure 4]. Coverage by Area is included in the spreadsheet.

Figure 4

Adolescent Vaccines Coverage
13 - 17 year olds
FY16 Q2 - FY17 Q2, IHS National
HPV Coverage for 13 – 17 year olds

For FY 2017 Q2, the 12 IHS Areas combined reported on 71,334 13 – 17 years of age compared to FY 2017 Q1 which included 69,934 13-17 year olds. For FY 2017 Q2, 83% (59,088/71,334) had received 1 dose of HPV, 71% (50,560/71,334) had received 2 doses of HPV and 55% (39,228/71,334) had received 3 doses of HPV [Figure 5].

For FY 2017 Q2, coverage by Area ranged from 63% - 96% for HPV1, 49% - 91% for HPV2, and 34% – 74% for HPV3. Coverage by Area is included in the spreadsheet.

Figure 5
**Adult Report**

The Adult Immunization Report was collected for the first time FY12 Q4. This report collects data on patients meeting the "Active Clinical User" definition (e.g. 2 visits in the last 3 years) and reports vaccination rates for the following vaccines and age groups: Tdap in those 19 years+; HPV 1, 2 and 3 doses in Females 19-26 years: HPV 1, 2, and 3 doses in Males 19-21 years; Zoster vaccine in those 60 years+, and Pneumococcal polysaccharide vaccine at or after age 65 years.

For FY17 Q2 data were collected from all 12 IHS Areas on 500,697 active clinical patients 19 years and older compared to FY17 Q1 which included 521,146. Below is a chart with the coverage for each of the adult vaccines.

<table>
<thead>
<tr>
<th>Vaccine</th>
<th>All IHS Areas coverage</th>
<th>Range of coverage</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 dose of Tdap (19 years and older)</td>
<td>80% (401,160/500,697)</td>
<td>63% - 93%</td>
</tr>
<tr>
<td>1 dose of HPV females (19-26 years)</td>
<td>71% (36,252/50,892)</td>
<td>51% - 85%</td>
</tr>
<tr>
<td>3 doses of HPV females (19-26 years)</td>
<td>54% (27,450/50,892)</td>
<td>36% - 70%</td>
</tr>
<tr>
<td>1 dose of HPV males (19-21 years)</td>
<td>69% (8,863/12,909)</td>
<td>49% - 84%</td>
</tr>
<tr>
<td>3 doses of HPV males (19-21 years)</td>
<td>40% (5,198/12,909)</td>
<td>26% - 53%</td>
</tr>
<tr>
<td>1 dose of Zoster (60 years and older)</td>
<td>60% (62,665/105,113)</td>
<td>37% - 79%</td>
</tr>
<tr>
<td>1 dose of Pneumo at/after 65 years</td>
<td>80% (55,296/69,576)</td>
<td>68% - 86%</td>
</tr>
</tbody>
</table>

Immunization coverage for adults increased slightly this quarter compared with previous quarters for most vaccines [Figure 6]. Coverage by Area is included in the spreadsheet.

**Figure 6**

![Adult Vaccines Coverage](image-url)
Adult Composite Report

The Adult composite measure data is included in the Adult Immunization Report and is being collected for the first time in FY17 Q1. This report collects data on patients meeting the "Active Clinical User" definition (e.g. 2 visits in the last 3 years) and reports vaccination rates for the following vaccines and age groups: 19-59 years with Tdap ever and Tdap/Td <10 years; 60-64 years with Tdap ever and Tdap/Td <10 years and Zoster; 65+ years with Tdap ever and Tdap/Td <10 years and Zoster and Pneumo; and 19 years and older with appropriately vaccinated per age recommendation.

<table>
<thead>
<tr>
<th>Vaccination Schedule</th>
<th>All IHS Areas coverage</th>
<th>Range of coverage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tdap ever and Tdap/Td &lt; 10 years (19-59 years)</td>
<td>80%</td>
<td>65% - 93%</td>
</tr>
<tr>
<td></td>
<td>(316,741/395,303)</td>
<td></td>
</tr>
<tr>
<td>Tdap ever and Tdap/Td &lt; 10 years and Zoster (60-64 years)</td>
<td>44%</td>
<td>25% - 66%</td>
</tr>
<tr>
<td></td>
<td>(16,124/36,752)</td>
<td></td>
</tr>
<tr>
<td>Tdap ever and Tdap/Td &lt; 10 years and Zoster and Pneumo (65 years and older)</td>
<td>58%</td>
<td>40% - 79%</td>
</tr>
<tr>
<td></td>
<td>(42,017/72,717)</td>
<td></td>
</tr>
<tr>
<td>Appropriately vaccinated per age recommendation (19 years and older)</td>
<td>75%</td>
<td>59% - 89%</td>
</tr>
<tr>
<td></td>
<td>(374,221/500,697)</td>
<td></td>
</tr>
</tbody>
</table>

Coverage by Area is included in the spreadsheet.

Figure 7

Adult Vaccine Composite Measures *
Appropriately Vaccinated Per Age Recommendations
FY17 Q1 - FY17 Q2, IHS National

* 19-59 years with Tdap ever and Tdap/Td <10 years; 60-64 years with Tdap ever and Tdap/Td <10 years and Zoster; 65+ years with Tdap ever and Tdap/Td <10 years and Zoster and Pneumo; and 19 years and older with appropriately vaccinated per age recommendation.
Influenza Vaccine Coverage

For the 2016 – 2017 influenza season, influenza vaccine was recommended for everyone 6 months and older. To monitor the implementation of this recommendation in IHS, an all-ages influenza vaccine coverage report was included in the RPMS Immunization Package. Data on influenza vaccines administered as of March 31, 2017 are included below.

For 2017 Q2, 12 IHS Areas provided an influenza report. Data were collected on 685,982 patients 6 months and older. Overall, 33% of patients received at least 1 dose of influenza vaccine; coverage by the different age/risk groups is included below. Coverage by IHS Area is included in the spreadsheet.

Figure 7

Coverage with 1 dose of Flu vaccine
6 months and older
As of March 30, 2017, IHS National