Annual Immunization Progress Report for CY2009

Section IX. Immunization Information Systems

Instructions

All grantees are required to complete this report. Submission of the final Immunization Annual Progress Report must be done by the Immunization Program Manager or designee. Only one Annual Report will be accepted per grantee. If grantees receive information from other regions or counties in their jurisdiction, the grantee must compile the information into one Annual Report. All grantees that conduct registry activities in their state/territory are required to complete questions 1 through 5.

The Annual Report is due on April 30th of the year following the period of performance. CDC IISSB staff will contact each IIS after April 30th with questions and/or comments about the report and data submitted for CY2009. Revisions to modify submissions are NOT intended to be used for the purpose of reporting additional 2009 IIS data uploads that are submitted to the IIS between April 30, 2010 and May 31, 2010. Revisions to the IIS section of the Annual Report may be forwarded to Vahé Heboyan, CDC/NCIRD/IISSB at IBQ4@cdc.gov and MUST be received by May 31, 2010.

Data Query Guidelines

- IISAR 2009 covers activities between January 1, 2009 and December 31, 2009, including:
  - Immunizations that were administrated in CY 2009, but were entered into the IIS after December 31, 2009;
  - Children, adolescents, and adults who were within the specified age range during CY 2009, but were entered into the IIS after December 31, 2009;
  - Seasonal influenza has been extended to include August 2009.
  - Excluding H1N1 vaccines administered in CY 2009.

NOTE: To expand on any answers; document an answer you feel is more appropriate than the category provided; if the answer to a question is unknown or data are not available; or if you need clarification on a question or answer choice please contact Vahé Heboyan, CDC/NCIRD/IISSB at IBQ4@cdc.gov.

Definitions

Immunization Information Systems (IIS): Refers to broader system functionality and includes more than the minimum immunization registry functional standards. An IIS has additional capacities such as vaccine management, order/inventory control, adverse event reporting, tighter interoperability with electronic medical records, lifetime vaccine histories, emergency
preparedness functions, linkage with other public health programs, and reporting for disease surveillance functions.

**IPOM** - The 2008-2012 Immunization Program Operations Manual (IPOM) is a compilation of resources to assist immunization program managers and their staff in implementing comprehensive immunization programs. [http://www.cdc.gov/vaccines/vac-gen/policies/ipom/default.htm](http://www.cdc.gov/vaccines/vac-gen/policies/ipom/default.htm)

**Geopolitical Area** is defined as the area that contains the population of children residing in the geopolitical location covered by the IIS.

**Children** are considered inactive for the purposes of this reporting if they are (1) Inactive permanently, or (2) have moved or gone elsewhere at a jurisdictional level.

☐ There is no IIS activity in this state/territory (If no IIS activity, please complete Section A ONLY).

**Section A. Contact Information**

**Logic Guidance:**

- **QUESTIONS 1-5 ARE REQUIRED TO BE COMPLETED BY ALL GRANTEES, INCLUDING THOSE WITH NO IIS ACTIVITY.**
- List ONLY government employee contacts in questions 4 and 5

1. Grantee: California
2. Name of IIS: California Immunization Registry (CAIR)
2a. Immunization Program or IIS web address: [www.CAIRWEB.org](http://www.CAIRWEB.org)
3. Name of person(s) completing this report: Roberta Lewis, RN, MS
4. Programmatic IIS Contact person (a manager or administrator who coordinates IIS activities.
5. Technical IIS Contact Person (coordinator of IIS software and/or hardware) [ ] Check if same as programmatic contact

Name: Chris Kim, MSIE  State: CA  Title: CAIR Information Systems Manager  Zip: 94804

Address: 850 Marina Bay Parkway  Phone: (510) 620-3778  Ext:  [ ] Check if contact person for questions about this report

6. Which age groups are included in your IIS? (IPOM 6.1e)

   c. All ages (incl adults) [ ]

**Saturation Measures**

- All of the following saturation data for children, adolescents, adults and providers should be generated directly from your IIS.
- Population Denominators for proportion calculations of saturation measures are derived from 2008 U.S. Census data until 2009 data are available. The referenced date for census estimates is July 1, 2009.

**Section B. 19-35 months old Participation (IPOM 3.1a, 3.2a)**
Logic Guidance - Participation

- Query for Question 9 should count valid and invalid doses.
- **Do NOT count doses given after Dec 31, 2009.**
- **Exclude those with addresses outside of your state or geopolitical area.**
- **Exclude inactive children in IIS.**
- When calculating VZV coverage level, include those with history of disease.
- Queries should exclude persons from duplicate records table.
- **For all saturation measures exclude H1N1 vaccines administered in CY2009.**

<table>
<thead>
<tr>
<th>Step</th>
<th>CY2008</th>
<th>CY2009</th>
</tr>
</thead>
<tbody>
<tr>
<td>7.</td>
<td>823983</td>
<td>823983</td>
</tr>
<tr>
<td>8.</td>
<td>814917</td>
<td>831495</td>
</tr>
<tr>
<td>9.</td>
<td>352638</td>
<td>397563</td>
</tr>
<tr>
<td><strong>Proportion of children 19-35 months of age with 2 or more immunizations in the IIS. (population-based saturation measure) Formula: Q9/Q7</strong></td>
<td>43%</td>
<td>48%</td>
</tr>
<tr>
<td><strong>Proportion of children 19-35 months of age in the geopolitical area and IIS with 2 or more immunizations in the IIS. (IIS-based saturation measure) Formula: Q9/Q8</strong></td>
<td>43%</td>
<td>66%</td>
</tr>
</tbody>
</table>

Logic Guidance - 4:3:1:3:3 Series Coverage

- Queries for **Questions 10-12a** should only count valid doses and those with documented immunity or disease.
- **Do NOT count doses given after Dec 31, 2009.**
- **Consider 3+ doses of Hib-containing vaccine as up-to-date when calculating 4:3:1:3:3 series completion.**
- Exclude those with addresses outside of your state or geopolitical area.
- **Exclude inactive children in IIS.**
- **Queries should exclude H1N1 vaccines administered in CY2009.**
10. How many children in Question 9 have received the complete 4:3:1:3:3 series (4 DTaP, 3 polio, 1 MMR, 3 Hepatitis B, & 3 Hib)?

<table>
<thead>
<tr>
<th></th>
<th>170349</th>
<th>200877</th>
</tr>
</thead>
</table>

Proportion of children 19-35 months of age enrolled in the IIS with 10a.2+ immunizations, who have received the complete 4:3:1:3:3 series. (IIS-based saturation measure) Formula: Q10/Q9

<table>
<thead>
<tr>
<th></th>
<th>48%</th>
<th>51%</th>
</tr>
</thead>
</table>

11. How many children in Question 9 have NOT received the complete 4:3:1:3:3 series?

<table>
<thead>
<tr>
<th></th>
<th>177098</th>
<th>196686</th>
</tr>
</thead>
</table>

Proportion of children 19-35 months of age enrolled in the IIS with 11a.2+ immunizations, who have NOT received the complete 4:3:1:3:3 series. (IIS-based saturation measure) Formula: Q11/Q9

<table>
<thead>
<tr>
<th></th>
<th>50%</th>
<th>49%</th>
</tr>
</thead>
</table>

12. Of the children in Question 11, how many are missing ONE dose from being up-to-date on their 4:3:1:3:3 series?

<table>
<thead>
<tr>
<th></th>
<th>53272</th>
<th>55824</th>
</tr>
</thead>
</table>

Proportion of enrolled children 19-35 months of age who are NOT 12a. up-to-date that are missing one dose from being up-to-date on the 4:3:1:3:3 series. (IIS-based saturation measure) Formula: Q12/Q11

<table>
<thead>
<tr>
<th></th>
<th>30%</th>
<th>28%</th>
</tr>
</thead>
</table>

**Logic Guidance - 4:3:1:3:3:1 Series Coverage**

- Queries for Questions 13-15a should only count valid doses and those with documented immunity or disease.
- **Do NOT count doses given after Dec 31, 2009.**
- Consider 3+ doses of Hib-containing vaccine as up-to-date when calculating 4:3:1:3:3 series completion.
- Exclude those with addresses outside of your state or geopolitical area.
- Exclude inactive children in IIS.
- When calculating VZV coverage level, include those with history of disease.
- Queries should exclude persons from duplicate records table.
- Queries should exclude H1N1 vaccines administered in CY2009.

13. How many children in Question 9 have received the complete 4:3:1:3:1:3 series (4 DTaP, 3 Polio, 1 MMR, 3 Hepatitis B, 3 Hib, & Varicella)?

<table>
<thead>
<tr>
<th></th>
<th>167439</th>
<th>189998</th>
</tr>
</thead>
</table>

Proportion of children 19-35 months of age enrolled in the IIS with 13a.2+ immunizations, who have received the complete 4:3:1:3:3:1 series. (IIS-based saturation measure) Formula: Q13/Q9

<table>
<thead>
<tr>
<th></th>
<th>47%</th>
<th>48%</th>
</tr>
</thead>
</table>
14. How many children in Question 9 have **NOT** received the complete 4:3:1:3:3:1 series?

Proportion of children 19-35 months of age enrolled in the IIS with 14a.2+ immunizations, who have **NOT** received the complete 4:3:1:3:3:1 series. (IIS-based saturation measure) Formula: Q14/Q9

15. Of the children in Question 9, how many are **missing ONE dose** from being up-to-date on their 4:3:1:3:3:1 series? (IIS-based saturation measure) Formula: Q15/Q14

**Logic Guidance - Other Recommended Immunizations for children 19-35 months old.**

- Queries for Questions 16-19a should **only count valid doses** and those with documented immunity or disease.
- **Do NOT count doses given after Dec 31, 2009.**
- Exclude those with addresses outside of your state or geopolitical area.
- **Exclude inactive children in IIS.**
- Queries should exclude persons from duplicate records table.
- **Queries should exclude H1N1 vaccines administered in CY2009.**

16. How many children in Question 9 have received at least 2 doses of Hepatitis A vaccine?

Proportion of children 19-35 months of age enrolled in the IIS with 16a.2+ immunizations, who have received at least 2 doses of Hepatitis A vaccine. (IIS-based saturation measure) Formula: Q16/Q9

17. How many children in Question 9 have received at least 4 doses of PCV vaccine?

Proportion of children 19-35 months of age enrolled in the IIS with 17a.2+ immunizations, who have received at least 4 doses of PCV vaccine. (IIS-based saturation measure) Formula: Q17/Q9

18. How many children in Question 9 have received at least 2 doses of Rotavirus vaccine?

18a. Proportion of children 19-35 months of age enrolled in the IIS with
2+ immunizations, who have received at least 2 doses of Rotavirus vaccine. (IIS-based saturation measure) Formula: Q18/Q9

How many children in Question 8 have received at least 1 dose of seasonal Influenza vaccine and recorded in your IIS between Aug 1, 2009 - Dec 31, 2009? 170068 94055

Proportion of children 19-35 months of age enrolled in the IIS with 2+ immunizations, who have received AT LEAST 1 dose of seasonal Influenza vaccine and recorded in your IIS between Aug 1, 2009 - Dec 31, 2009. (Census-based saturation measure) Formula: Q19/Q8

21% 16%

Section C. IIS Participation for children <6 years of age (IPOM 3.1a, 3.2a)

Logic Guidance - Participation

- **Questions 20-23a** For children born from January 1, 2004 through August 31, 2009.
- Query for **Question 22** should count valid and invalid doses.
- **Do NOT count doses given after Dec 31, 2009.**
- Exclude those with addresses outside of your state or geopolitical area.
- Queries should exclude persons from duplicate records table.
- **Exclude inactive children in IIS.**
- Geopolitical Area is defined as the area that contains the population of children residing in the geopolitical location covered by the IIS.
- **For all saturation measures exclude H1N1 vaccines administered in CY2009.**

<table>
<thead>
<tr>
<th>CY 2008</th>
<th>CY 2009</th>
</tr>
</thead>
<tbody>
<tr>
<td>20. Number of children &lt; 6 years of age in the geopolitical area. (2008 Census Data)</td>
<td>3026611 3026611</td>
</tr>
<tr>
<td>21. How many children at least 4 months of age and under 6 years of age are both in your geopolitical area <strong>AND</strong> in your IIS?</td>
<td>1638138 2238331</td>
</tr>
<tr>
<td>Proportion of children less than 6 years of age that are both in your geopolitical area <strong>AND</strong> in your IIS. (population-based saturation measure) Formula: Q21/Q20</td>
<td>54% 72%</td>
</tr>
<tr>
<td>22. How many children in Question 21 have 2 or more immunizations recorded in your IIS? EXCLUDE SEASONAL INFLUENZA for this</td>
<td>1396211 1602721</td>
</tr>
</tbody>
</table>
22a. Proportion of children < 6 years of age in the geopolitical area with 2 or more immunizations recorded in your IIS. (Census-based saturation measure) Formula: Q22/Q20 (Proposed Healthy People 2020)

|   | 46% | 51% |

22b. Proportion of children < 6 years of age enrolled in the IIS with 2 or more immunizations recorded in the IIS. (IIS-based saturation measure) Formula: Q22/Q21

|   | 85% | 72% |

23a. How many children in Question 20 have received at least 1 dose of seasonal Influenza vaccine and recorded in your IIS between Aug 1, 2009 - Dec 31, 2009?

23b. Proportion of children <6 years of age in the geopolitical area, who have received at least 1 dose of seasonal Influenza vaccine and recorded in your IIS between Aug 1, 2009 - Dec 31, 2009. (Census-based saturation measure) Formula: Q23/Q20

|   | 9%  |

Section D. IIS Participation for children 6 years of age

Logic Guidance - Series Coverage for Children 6 Years of Age

- Queries for Questions 24-28a should only count valid doses and those with documented immunity or disease.
- Do NOT count doses given after Dec 31, 2009.
- Consider 3+ doses of Hib-containing vaccine as up-to-date when calculating 4:3:1:3:3 and 4:3:1:3:3:1 series completion.
- Exclude those with addresses outside of your state or geopolitical area.
- Queries should exclude persons from duplicate records table.
- Exclude inactive children in IIS.
- Queries should exclude H1N1 vaccines administered in CY2009.

24. Number of children 6 years of age in the geopolitical area in CY 2009. (2008 Census Data) 499988 499988

25. How many children 6 years of age in CY 2009 are both in your geopolitical area AND in your IIS? 303257 380073

26. How many children 6 years of age in CY 2009 are both in your geopolitical area AND in your IIS with 2 or more immunizations? 293177
EXCLUDE SEASONAL INFLUENZA from this query

Proportion of children 6 years of age in the geopolitical area in CY 2009 and in your IIS with 2 or more immunizations. (Census-based saturation measures) Formula: Q26/Q24

How many children 6 years of age in CY 2009 in your IIS have received the complete 4:3:1:3:3 series (4 DTaP, 3 Polio, 1 MMR, 3 Hepatitis B, & 3 Hib)?

Proportion of children 6 years of age in CY 2009 in your IIS who have completed the 4:3:1:3:3 vaccination series. (IIS-based saturation measure) Formula: Q27/Q26

How many children 6 years of age in CY 2009 in your IIS have received the complete 4:3:1:3:1 series (4 DTaP, 3 Polio, 1 MMR, 3 Hepatitis B, 3 Hib & Varicella)?

Proportion of children 6 years of age in CY 2009 in your IIS who have completed the 4:3:1:3:3:1 vaccination series. (IIS-based saturation measure) Formula: Q28/Q26

(Remember, you MUST hit SAVE to keep any changes - system timeout is 15 minutes!)

Section E. Provider Site Participation (IPOM 3.2b)

Logic Guidance - Provider Participation

- Only count provider sites that serve CHILDREN LESS THAN SIX YEARS OF AGE.
- Public/Private provider sites can be located through various sources, including, but not limited to, phone books, AAP, VFC provider data, etc.
- List ONLY the provider sites. A provider site may have more than one provider.
- Geopolitical Area is defined as the area that contains the population of children residing in the geopolitical location covered by the IIS.
- Private Immunization Sites Definition:
  1. All private provider sites that are NOT Federally Qualified Health Centers (FQHCs)* - see definition below.
  2. Health plans; Private doctors; Private clinics.
• **Public Immunization Sites Definition**

  1. **Public Health Department Clinic**: a state, district, county or city public health department-operated clinic where vaccines are administered. Include only those Public Health Department clinics that not FQHCs* (see definition below).

  2. **Community/Migrant Health Center/Rural Health Clinic**: Primary care clinics partially funded by the Bureau of primary Health Care (BPHC), as well as Federally Qualified Health Centers (FQHCs) and FQHC look-alikes which are not funded by BHPC. Do not included health department clinics that are FQHCs in the total.

  3. **Indian Health Service/Tribal Health Clinic**: Primary care clinics for American Indians and Alaska Natives, Including outpatient clinics in IHS hospitals, IHS/Tribal health clinics may have multiple sites.

  4. **Other public provider**: any other public clinic which provides immunizations, such as a publicly funded non-profit neighborhood clinic.

*FQHCs include community, migrant and rural centers, and special health facilities that receive grants under the Public Health Service (PHS) Act, and "look-alikes" which meet the same qualifications but do not actually receive grant funds. For additional information on this provider type refer to: [http://www.cdc.gov/vaccines/programs/vfc/parents/default.htm#eligible](http://www.cdc.gov/vaccines/programs/vfc/parents/default.htm#eligible)

### CY 2008  CY 2009

29. How many public provider immunization SITES (see definition above) are in your geopolitical area?  

<table>
<thead>
<tr>
<th>2008</th>
<th>2009</th>
</tr>
</thead>
<tbody>
<tr>
<td>1187</td>
<td>1199</td>
</tr>
</tbody>
</table>

30. Number of public provider immunization SITES in your geopolitical area enrolled in your IIS  

<table>
<thead>
<tr>
<th>2008</th>
<th>2009</th>
</tr>
</thead>
<tbody>
<tr>
<td>1355</td>
<td>1135</td>
</tr>
</tbody>
</table>

30a. Proportion of public provider sites in the geopolitical area enrolled in the IIS. Formula: Q30/Q29  

<table>
<thead>
<tr>
<th>2008</th>
<th>2009</th>
</tr>
</thead>
<tbody>
<tr>
<td>114%</td>
<td>95%</td>
</tr>
</tbody>
</table>

31. How many of the enrolled public provider immunization SITES in your geopolitical area have submitted data to your IIS in the last 6 months of the year?  

<table>
<thead>
<tr>
<th>2008</th>
<th>2009</th>
</tr>
</thead>
<tbody>
<tr>
<td>1075</td>
<td>942</td>
</tr>
</tbody>
</table>

31a. Proportion of enrolled public provider sites that have submitted data to the IIS within the last six months of the year. Formula: Q31/Q29  

<table>
<thead>
<tr>
<th>2008</th>
<th>2009</th>
</tr>
</thead>
<tbody>
<tr>
<td>91%</td>
<td>83%</td>
</tr>
</tbody>
</table>

32. Number of private provider immunization SITES (see definition above) in your geopolitical area that are:  

   a. VFC providers only  

<table>
<thead>
<tr>
<th>2008</th>
<th>2009</th>
</tr>
</thead>
<tbody>
<tr>
<td>2891</td>
<td>3135</td>
</tr>
</tbody>
</table>
b. Non-VFC providers only

c. Unable to separate VFC and Non-VFC private provider sites.

d. If (c) is checked, please report total private provider immunization sites here:

e. Total private provider immunization sites

33. Number of private provider immunization SITES in your geopolitical area enrolled in your IIS

33a. Proportion of private provider sites in the geopolitical area enrolled in the IIS. Formula: Q33/Q32e

How many of the enrolled private provider immunization SITES in your geopolitical area have submitted data to your IIS in the last 6 months of the year?

34. Proportion of enrolled private provider sites that have submitted data to the IIS within the last six months of the year. Formula: Q34/Q33

Our data indicate a ±10% change in your provider participation measures. In addition to providing an explanation for ±10% differences between 2008 and 2009 data, text boxes can also be used to provide an explanation as to why saturation measure proportions are over 100%.

30a. the number of public private provider sites in #30 decreased from last year.

Section F. Adolescent Immunizations (IPOM 3.2a)

Logic Guidance - Adolescent Immunizations

- Skip this section if you answered 'a.' on question 6.
- 11-12 years (birthdates between Jan 1, 1997 and Dec 31, 1998)
- 13-18 years (birthdates between Jan 1, 1991 and Dec 31, 1996)
- **Question 37: Query should ONLY count doses recommended for ADOLESCENTS ONLY**
- HPV, MCV4, Tdap/Td.
- Queries should only count valid doses and those with documented immunity or disease.
- Queries should exclude persons from duplicate records table.
- Exclude inactive children in IIS.
- For all saturation measures exclude H1N1 vaccines administered in CY2009.

<table>
<thead>
<tr>
<th>CY 2008</th>
<th>CY 2009</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>11-12 years old</td>
<td>11-12 years old</td>
</tr>
<tr>
<td>1004184</td>
<td>1004184</td>
</tr>
</tbody>
</table>

35. Number of adolescents in each age group in the geopolitical area (2008 Census Data)

36. How many adolescents in the following age groups are both in your geopolitical area and in your IIS?

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>11-12 years old</td>
<td>11-12 years old</td>
</tr>
<tr>
<td>489016</td>
<td>489016</td>
</tr>
</tbody>
</table>

36a. Proportion of adolescents in each of the following age groups who were in the geopolitical area and in the IIS. (Census-based saturation measure) Formula: Q36/Q35

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>49%</td>
<td>49%</td>
</tr>
<tr>
<td>58%</td>
<td>58%</td>
</tr>
</tbody>
</table>

37. ADOLESCENT immunizations (HPV, MCV4, Tdap/Td) recorded in your IIS? EXCLUDE SEASONAL INFLUENZA from this query.

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>357080</td>
<td>357080</td>
</tr>
</tbody>
</table>

37a. Proportion of adolescents in the following age groups in the geopolitical area with 1 or more ADOLESCENT immunizations (HPV, MCV4, Tdap/Td) recorded in the IIS. (Census-based saturation measure) Formula: Q37/Q35 (Proposed Healthy People 2020)

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>36%</td>
<td>36%</td>
</tr>
<tr>
<td>33%</td>
<td>33%</td>
</tr>
</tbody>
</table>

38. How many adolescents in Question 35 have received at least 1 dose of seasonal Influenza vaccine and recorded in your IIS between Aug 1, 2009 - Dec 31, 2009?

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>48337</td>
<td>48337</td>
</tr>
</tbody>
</table>

38a. Proportion of adolescents in the following age groups in your geopolitical area who
have received at least 1 dose of seasonal Influenza vaccine recorded in your IIS between Aug 1, 2009 - Dec 31, 2009. (IIS-based saturation measure) Formula: Q38/Q35

(Remember, you MUST hit SAVE IIS DATA in order to keep any changes you have made to this form!)

Section G. Adult Immunizations (IPOM 3.2a)

Logic Guidance - Adult Immunizations

- Skip this section if you answered 'a.' or 'b.' on question 6.
- Query for seasonal influenza vaccine should only count valid doses.
- Geopolitical Area is defined as the area that contains the population of adults residing in the geopolitical location covered by the IIS.
- Queries should exclude persons from duplicate records table.
- Query should count vaccines recommended for ADULTS ONLY (MMR, HPV, Td, Var, Zoster, or Pneumo).
- Exclude inactive children in IIS.
- For all saturation measures exclude H1N1 vaccines administered in CY 2009.

<table>
<thead>
<tr>
<th>CY 2008</th>
<th>CY 2009</th>
</tr>
</thead>
<tbody>
<tr>
<td>39. Number of adults ≥19 years old in CY 2009. (2008 Census Data)</td>
<td>26841595</td>
</tr>
<tr>
<td>40. Number of adults ≥19 years old in CY 2009 both in your geopolitical area AND in your IIS with 1+ ADULT immunization (MMR, HPV, Td, Var, Zoster, or Pneumo). EXCLUDE SEASONAL INFLUENZA from this query.</td>
<td>1817057</td>
</tr>
<tr>
<td>40a. Proportion of adults ≥19 years old in the geopolitical area enrolled in the IIS. (Census-based saturation measure) Formula:Q40/Q39</td>
<td>7%</td>
</tr>
<tr>
<td>41. Number of adults ≥50 years old in CY 2009. (2008 Census Data)</td>
<td>10729003</td>
</tr>
</tbody>
</table>
42. Number of adults ≥50 years old both in your geopolitical area **AND** in your IIS.

Proportion of adults ≥50 years old in the geopolitical area who 42a. are enrolled in the IIS. (Census-based saturation measure) Formula: Q42/Q41

<table>
<thead>
<tr>
<th></th>
<th>4%</th>
<th>6%</th>
</tr>
</thead>
</table>

How many adults ≥50 years old who are both in your geopolitical area **AND** in your IIS have received at least 1 dose of seasonal influenza vaccine and recorded in your IIS between Aug 1, 2009 - Dec 31, 2009?

Proportion of adults ≥50 years old in your geopolitical area who received at least 1 dose of seasonal Influenza vaccine and recorded in your IIS between Aug 1, 2009 - Dec 31, 2009. (IIS-based saturation measure) Formula: Q43/Q41

<table>
<thead>
<tr>
<th></th>
<th>9%</th>
<th>1%</th>
</tr>
</thead>
</table>

Section H. Functional Standards (IPOM 3.5a)

**Logic Guidance - Functional Standards**

- **For children under 6 years of age: born between January 1, 2004 through August 31, 2009**
- Please provide a brief explanation if % data element in IIS for CY 2009 is less than 25%

Are the following core data element data entry fields included in your IIS database? If yes, please check the box and provide the PERCENTAGE of the data element populated in the IIS.

<table>
<thead>
<tr>
<th>Data Entry Field</th>
<th>CY 2008 % data element populated in IIS</th>
<th>CY 2009 % data element (if Yes)</th>
<th>Explanation (if data element is less than 25%)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>a. Patient's first name</strong></td>
<td>Yes</td>
<td>100%</td>
<td>100%</td>
</tr>
</tbody>
</table>
b. Patient's middle name or middle initial
   Yes 30% [✓] 32%

c. Patient's last name
   Yes 100% [✓] 100%

d. Patient's birth date
   Yes 100% [✓] 100%

e. Patient's sex
   Yes 90% [✓] 99%

f. Patient's birth state
   No 24% [✓] Not a required field

g. Patient's birth order
   **Definition:** If the patient was part of a multiple birth, a number indicating the patient's birth order is entered in this field. This field should only be used if PID-24-Multiple birth indicator is valued as "yes."
   No

h. Patient's birth country
   **Guidance:** If patient was born outside the U.S., can the IIS record the patient's birth country?
   Yes 17% [✓] 13% Not a required field

i. Mother's first name
   **Definition:** The mother's name element refers to current legal mother (who may or may not be birth mother). To receive credit for the patient and mother names, at least a surname and one other name element must be valued
   Yes 94% [✓] 88%

j. Mother's maiden name
   Yes 25% [✓] 28%

k. Mother's last name
   Yes 60% [✓] 53%

l. Vaccine type
   Yes 100% [✓] 100%

m. Vaccine manufacturer
   Yes 46% [✓] 58%

n. Vaccination date
   Yes 100% [✓] 100%

o. Vaccination lot number
   Yes 32% [✓] 52%

p. Race
**Definition:** American Indian or Alaskan Native, Asian, Black or African American, Native Hawaiian or Other Pacific Islander, and White

| Yes | 52% | 55% |

**q. Ethnicity**

**Definition:** 1) Hispanic or Latino [A person of Cuban, Mexican, Puerto Rican, South or Central American, or other Spanish culture or origin, regardless of race] OR 2) Not Hispanic or Latino

| Yes | 54% | 55% |

**Address**

**r. Logic guidance:** exclude addresses with illogical, or incomplete data and exclude those residing outside your geopolitical area

1) Primary Street Address

| Yes | 67% | 72% |

2) City

| Yes | 74% | 72% |

3) State

| Yes | 94% | 93% |

4) Zip

| Yes | 74% | 72% |

**s. Phone Number**

| Yes | 65% | 63% |

**t. Historical vaccination flag indicator**

**Definition:** Field to denote that a vaccination was entered based on historical information such as: (source unspecified, from other provider, from parent's written record, from parent's recall, from other IIS, from birth certificate, from school record, or from public agency).

| Yes | ✔ |

**u. VFC eligibility**

**Definition:** A field to denote that a person is eligible for VFC such as: (VFC eligibility not determined/unknown, Not VFC eligible, VFC eligible - Medicaid/Medicaid Managed Care, VFC eligible - Uninsured, VFC eligible - American Indian/Alaskan Native, VFC eligible - Federally Qualified Health Center Patient (under-insured), VFC eligible - State-specific eligibility (e.g. S-CHIP plan), or VFC eligible - Local-specific eligibility)

| Yes | ✔ |

**u-1. % of kids** with 2+ immunization records in IIS that have VFC

88%
eligibility (see definition above) status in IIS.
Formula: (# of kids with 2+ immunizations in IIS that have any VFC eligibility status) / (Q22)

v. **History of varicella disease indicator**
   **Definition:** A field to denote if person had varicella.
   ![Yes](Yes)

v-1. **# of kids** less than 6 years of age in IIS with flagged History of Varicella disease indicator.

w. **Patient status indicators that include active, inactive, MOGE, and other classifications.**
   **Definition:** A field to denote the status of a patient in the IIS such as: (Active, Inactive, Inactive-Lost to follow-up,(cannot contact), Inactive-Moved or gone elsewhere(transfered), Inactive-Permanently inactive (do not re-activate or add new entries to this record), Other, or Unknown)
   ![Yes](Yes)

w-1. **# of kids** less than 6 years of age in IIS with flagged patient status indicator.

<table>
<thead>
<tr>
<th>CY 2008</th>
<th>CY 2009</th>
</tr>
</thead>
<tbody>
<tr>
<td>43</td>
<td>49</td>
</tr>
</tbody>
</table>

FS What is the average amount of time, **IN WEEKS**, between a child's birth and the establishment of an IIS record?

FS What % of newborn children have an IIS record established within 6 weeks of birth? For children born from January 1, 2004 through August 31, 2009.

FS Prior to a patient encounter, can participating providers access immunization information in the IIS?

FS During a patient encounter, can participating providers access immunization information in the IIS?

FS Does your IIS receive and process vaccine and other immunization encounter information within **1 month (1 month=30 days)** of vaccine administration?

FS For all of the vaccines administered during CY 2009 for children <6
2.4. years of age and recorded in the IIS, what percentage of vaccine doses were reported to the IIS within the following time frames:

Time from immunization to record entry into the IIS:

2.4.1 (a)-(d) MUST ADD TO 100%

a. % equal to or less than 1 day

b. % greater than 1 day - equal to or less than 7 days

c. % greater than 7 days - equal to or less than 30 days

d. % greater than 30 days

Total %

e. Cannot flag historical shot records and exclude them from this analysis / Cannot answer this question.

FS 2.5 Has a written confidentiality policy been implemented for your IIS?

FS 2.5.1 Has this policy been reviewed and found to be in compliance with federal, state, and local legislation?

FS 2.5.2 Has this policy been reviewed and found to be consistent with the minimum specifications contained in Chapter 2, Appendix B of the Community Immunization Registry Manual, except where superseded by state or local legislation?

FS 2.6 Has a written security policy been implemented for your IIS?

FS 2.6.1 Has this policy been reviewed and found to be in compliance with federal, state, and local legislation?
Has this policy been reviewed and found to be consistent with the minimum specifications contained in Chapter 2, Appendix D of the Community Immunization Registry Manual, except where superseded by state or local legislation?

If we were to send your IIS a query today for a specific immunization record via an HL7 message, could your IIS process that message and return either an HL7 message showing multiple matches to the query or return the immunization record in an HL7 VXR message consistent with the specifications in the current version of NCIRD's HL7 implementation guide?

If we were to send your IIS a new immunization record today via an HL7 VXU message, could your IIS process that message and upload the record into your database consistent with the specifications in the current version of NCIRD's HL7 implementation guide?

Is an automated IIS function in place, accessible at the provider level, that identifies needed immunizations, consistent with current ACIP recommendations, given an individual's immunization history to date?

Can your IIS electronically generate REMINDER notifications (e.g., notices to be mailed, input to an automated telephone reminder system, lists for provider use)?

Can your IIS electronically generate RECALL notifications (e.g., notices to be mailed, input to an automated telephone reminder system, lists for provider use)?

Is your IIS able to produce immunization reports:

FS 2.10 -- For a given age group of children
FS 2.10.1 -- By geopolitical subdivision

FS 2.10.2 -- By individual provider or site

FS Is an IIS function in place that allows authorized users to print a copy of an individual's immunization history that serves as an "official immunization record"?

FS Does the IIS have a data quality protocol to combine all available information relating to a particular individual into a single accurate immunization record?

44. Total Functionality Score

Section I. Data Quality (IPOM 4.2a)

Is your IIS populated by birth data? Count births in your geopolitical area only. (Definition: Information from Vital Records, birthing hospitals, perinatal or newborn screening programs and etc.)

If YES to 45, please estimate the % from each source. Count births in your geopolitical area only. Percentages should total 100%.

(i) Vital Records
(ii) Birthing Hospitals
(iii) Perinatal or newborn screening programs
(iv) Other Specify:

Total

45b. If YES to 45, please estimate the percentage of
birth dose Hepatitis B downloads from the following sources:

(i) Vital Records
(ii) Birthing Hospitals
(iii) Perinatal or newborn screening programs

(iv) Other Specify:

| Local Health Department | 5% |

46. How long does it take to remove or inactivate deceased children from the IIS? (Number of DAYS from date of death to removal/inactivation OR Cannot flag/Cannot Answer this question)

- Number of **DAYS** from date of death to removal/inactivation
  - 30
  - 33
- Cannot flag/Cannot Answer this question

47. Do you monitor patient de-duplication process to assess the amount of duplicates for human resolution?

- No
- Yes

If yes to 47, based on the total number of incoming records processed on a daily basis, estimate the % that require human resolution for patient matching. For example, if you process 100 records and 60 records automatically load into the database but 40 require human resolution to de-duplicate, your answer would be 40%.

| 1 | 32% |

48. Have you assessed the proportion of missing or illogical data for each of the 14 NVAC core data elements in the IIS?

- Yes
- No

49. Are you using some or all of the following:

| AIRA's "Management of Moved or Gone Elsewhere (MOGE) Status and Other Patient Designations in IIS" | Yes |

http://www.immregistries.org/pubs/MIROW.phtml to addresses the issues around MOGE (Moved or Gone Elsewhere) status?
49b. AIRA's "Vaccine level Deduplication in Immunization Information Systems"
http://www.immregistries.org/pubs/mirow.phtml
guide for addressing the issue of vaccine level deduplication?

49c. AIRA's "Data Quality Assurance in Immunization Information Systems: Incoming Data"
http://www.immregistries.org/pubs/mirow.phtml
guide for addressing data quality issues for incoming data?

49d. AIRA's "Reminder/recall in Immunization information Systems"
http://www.immregistries.org/pubs/mirow.phtml
guide for addressing Reminder/Recall issues?

Section J. Data Use

50. Do you use IIS data for immunization program management purposes such as: (Check all that apply)
a. Epidemiology
   i. routine surveillance (IPOM 9.1d)
   ii. outbreak management (IPOM 9.1d)
   iii. new vaccine uptake
   iv. monitor contraindications
   v. track adverse events
   vi. track children born to HbsAG unknown/positive mothers for intensified HepB surveillance
   vii. facilitate report to VAERS (IIS reporting to VAERS for initial evaluation of vaccine safety issues.)

b. Program management Reports (IPOM 3.2d)
i. Vaccine inventory management

<table>
<thead>
<tr>
<th></th>
<th>Yes</th>
<th>No</th>
<th>Yes</th>
</tr>
</thead>
<tbody>
<tr>
<td>a) doses administered</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
<tr>
<td>b) vaccine recall</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
<tr>
<td>c) VFC eligibility</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

ii. Assessments (IPOM 4.2b,c)

<table>
<thead>
<tr>
<th></th>
<th>Yes</th>
<th>No</th>
<th>Yes</th>
</tr>
</thead>
<tbody>
<tr>
<td>a) UTD status</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
<tr>
<td>b) school assessments</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
<tr>
<td>c) vaccine coverage (IPOM 4.2)</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
<tr>
<td>d) pockets of need (geopolitical or demographic pockets of need)</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
<tr>
<td>e) AFIX (IPOM 4.2d)</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
<tr>
<td>f) HEDIS reporting</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

c. Emergency preparedness (IPOM 3.3b)

<table>
<thead>
<tr>
<th></th>
<th>Yes</th>
<th>No</th>
<th>Yes</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

d. Other: Obesity Surveillance in San Diego

<table>
<thead>
<tr>
<th></th>
<th>Yes</th>
<th>No</th>
<th>Yes</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Logic Guidance - Question 51**

- **Public/private provider sites** can be located through various sources, including but not limited to, phone books, AAP, VFC provider data, etc. A provider site may have more than one provider. See detailed description in Section E above.
- **Definition of EHR**: computerized replacement of the paper medical chart as the primary source of patient information.
- **Directly** to the IIS would include either electronic information batch or real time but would not go through billing systems; it would be direct to the IIS.

51. How many provider site EHR's [exclude EHR vendors] are providing immunization data directly to your IIS? If none, please state "0".  
   2 34  

51a Check the names of **EHR vendors** you are currently working with;
i.e. EHR vendors that are currently transmitting data electronically to your IIS. Check all that apply.

a. Allscripts - Touchworks
b. Connexin Soft - Office Practicum
c. eClinical - eClinical Works
d. eMD
e. Epic Systems - Epicare
f. GE Medical - Centricity (Logician)
g. Misys Healthcare Systems
h. Netsmart - Insight
i. NextGen
j. PCC
k. RPMS
l. SeaSoft
m. Other (please list all that apply)
   IC Chart, encounter Pro, Amazin Charts, Insight, Meditab, Meditec
n. No Vendor
o. Do not track EHR vendors

Section K. Data Sharing / Linkages

Logic Guidance - Data Sharing / Linkages

- I/T/U Definition: Indian Health Service, Tribal Urban Indian, and Alaska Native corporation health facilities
- Check all that apply

52. How are users accessing IIS data? (Check all that apply)

<table>
<thead>
<tr>
<th>User Types</th>
<th>Read-only (view-only)</th>
<th>Update a record (read/view, update, and exchange a record)</th>
</tr>
</thead>
<tbody>
<tr>
<td>a) Hospitals (birthing hospitals or hospitals administering birth dose Hepatitis B vaccine) (IPOM 7.1)</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>b) Daycare/Head Start (IPOM 10.2d)</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>c) Elementary Schools (IPOM 10.2d)</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td></td>
<td>Features</td>
<td>Yes/No</td>
</tr>
<tr>
<td>---</td>
<td>---------------------------------------------------------------------------------------------------</td>
<td>--------</td>
</tr>
<tr>
<td>d)</td>
<td>High Schools (IPOM 10.2d)</td>
<td>✔</td>
</tr>
<tr>
<td>e)</td>
<td>Higher Education (trade schools, junior college, college/university)</td>
<td>✔</td>
</tr>
<tr>
<td>f)</td>
<td>Correctional facilities</td>
<td>✔</td>
</tr>
<tr>
<td>g)</td>
<td>WIC (IPOM 11c)</td>
<td>✔</td>
</tr>
<tr>
<td>h)</td>
<td>STD/HIV</td>
<td>✔</td>
</tr>
<tr>
<td>i)</td>
<td>Long-term care facilities (IPOM 7.1)</td>
<td>✔</td>
</tr>
<tr>
<td>j)</td>
<td>Health Plans</td>
<td>✔</td>
</tr>
<tr>
<td>k)</td>
<td>IHS/Tribal/Urban (I/T/U) (IPOM 1.1b)</td>
<td>✔</td>
</tr>
<tr>
<td>l)</td>
<td>Veterans Administration</td>
<td>✔</td>
</tr>
<tr>
<td>m)</td>
<td>Juvenile facilities</td>
<td>✔</td>
</tr>
<tr>
<td>n)</td>
<td>Military</td>
<td>✔</td>
</tr>
<tr>
<td>o)</td>
<td>Family planning</td>
<td>✔</td>
</tr>
<tr>
<td>p)</td>
<td>Medicaid</td>
<td>✔</td>
</tr>
<tr>
<td>q)</td>
<td>Medicare</td>
<td>✔</td>
</tr>
<tr>
<td>r)</td>
<td>Retail Clinic</td>
<td>✔</td>
</tr>
<tr>
<td>s)</td>
<td>Pharmacy</td>
<td>✔</td>
</tr>
<tr>
<td>t)</td>
<td>Airport</td>
<td>✔</td>
</tr>
<tr>
<td>u)</td>
<td>Emergency Room</td>
<td>✔</td>
</tr>
</tbody>
</table>

52a. Does your IIS have the following features? (Check all that apply)

<table>
<thead>
<tr>
<th>Features</th>
<th>Yes/No</th>
</tr>
</thead>
<tbody>
<tr>
<td>a). Newborn Hearing Screening</td>
<td>✔</td>
</tr>
<tr>
<td>b). Lead Screening</td>
<td>✔</td>
</tr>
<tr>
<td>c). BMI (body mass index)</td>
<td>✔</td>
</tr>
<tr>
<td>d). VPD Surveillance (vaccine preventable diseases)</td>
<td>✔</td>
</tr>
<tr>
<td>e). TB</td>
<td>✔</td>
</tr>
<tr>
<td>f). Oral health</td>
<td>✔</td>
</tr>
<tr>
<td>g). Other</td>
<td>✔</td>
</tr>
</tbody>
</table>

Please select "Final" when you have completed all data entry for the CY 2009 Immunization Information Systems section.

☐ In-process ☑ Final
save iis data