



# Clinical Reporting System (CRS) Childhood Immunizations Measures

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# CRS GPRA Modernization Act (GPRAMA) Measure

- User Population patients ages 19–35 months active in IMM with the 4:3:1:3\*:3:1:4 combination, contraindications, and evidence of disease
  - Beginning in 2013, the measure was changed to look for 3 or 4 Hib, depending on the vaccines administered.
    - The 2012 rate reported by CRS was 76.8% (reported for GPRA). Rate did not include logic change for Hib.

# CRS Denominators

- Active Clinical patients ages 19–35 months as of the *end* of the Report Period (7–23 months at beginning of the Report Period)
  - Active Clinical is defined as:
    - Must be Indian/Alaska Native, based on Beneficiary classification 01.
    - Must reside in a community specified in the site's GPRA community taxonomy.
    - Must be alive on last day of Report Period.
    - Must have *two visits to defined medical clinics in the past 3 years*. One of those visits must to be any of the following: 01 General, 06 Diabetic, 10 GYN, 12 Immunization, 13 Internal Med, 20 Pediatrics, 24 Well Child, 28 Family Practice, 57 EPSDT, 70 Women's Health, 80 Urgent, 89 Evening. Second visit may be to larger list of clinics (see CRS User Manual).

# CRS Denominators (Continued)

- User Population patients ages 19–35 months as of the *end* of the Report Period
  - User Population defined as
    - Must be Indian/Alaska Native, based on Beneficiary classification 01
    - Must reside in a community specified in the site's GPRA community taxonomy
    - Must be alive on last day of Report Period
    - Must have *one visit to any clinic in the past three years*
  - Only included in the Selected Measures (Local) Reports

# CRS Denominators (Continued)

- GPRA: User Population patients ages 19–35 months as of the *end* of the Report Period who are active in the Immunization Package (IMM)
  - Must meet the User Population definition (see previous slide)
  - Must be active in IMM as of end of the Report Period, which is checked each time the report is run. Example:
    - Report Period: July 1, 2013–June 30, 2014
    - Immunization Package Status: Inactive
    - Inactive Date: May 1, 2014
    - Patient is not included in this denominator

# CRS Denominators (Continued)

- GPRA Denominator (Continued)
  - Since there is no way to determine when a patient became active in IMM, data is not reported for the Previous Year or Baseline Years for this denominator.
  - Reporting facility must be using the RPMS IMM for this denominator; otherwise, will have zero patients in the denominator.

# CRS Numerators

- Most CRS numerators include patients with the vaccine, contraindication, evidence of disease, and/or NMI-only refusal
  - Except for the Immunization Program Numerators, NMI refusals, evidence of disease, and contraindications for individual immunizations will also count toward meeting the definition, as defined below. NOTE: NMI refusals are not counted as refusals; rather, they are counted as contraindications.
  - Contraindications include:
    - IMM contraindications
    - NMI refusals entered into Patient Care Component (PCC)
    - Diagnosis codes for specific conditions (e.g. HIV)
    - Where required number of doses is greater than (>)1, only 1 contraindication is necessary to be counted in the numerator
  - Evidence of disease will be checked for at any time in the child's life (prior to the end of the Report Period)

# CRS Numerators (Continued)

- Most CRS numerators include one sub-numerator:
  - Patients with (1) evidence of the disease, (2) a contraindication, or (3) a documented NMI refusal

# CRS Numerators (Continued)

| Childhood Immunizations Numerator | National GPRA/GPRAMA Report? | Selected Measures (Local) Report? |
|-----------------------------------|------------------------------|-----------------------------------|
| <b>GPRAMA: 4:3:1:3*:3:1:4</b>     | Y                            | Y                                 |
| 4 DTaP                            | Y                            | Y                                 |
| 3 Polio                           | Y                            | Y                                 |
| 1 MMR                             | Y                            | Y                                 |
| 3-4 Hib                           | Y                            | Y                                 |
| 3 Hepatitis B                     | Y                            | Y                                 |
| 1 Varicella                       | Y                            | Y                                 |
| 4 Pneumococcal                    | Y                            | Y                                 |
| 2 Hepatitis A                     | N                            | Y                                 |
| 2-3 Rotavirus                     | N                            | Y                                 |
| 2 Influenza                       | N                            | Y                                 |

# CRS Logic

- Vaccines must be at least 10 days apart. Vaccines documented on dates within 10 days of each other are considered as the same immunization.



# CRS Logic (Continued)

- CRS dosage logic
  - 4 doses of DTaP: (1) 4 DTaP/DTP/Tdap; (2) 1 DTaP/DTP/Tdap and 3 DT/td; (3) 1 DTaP/DTP/Tdap and 3 each of Diphtheria and Tetanus; (4) 4 DT and 4 Acellular Pertussis; (5) 4 Td and 4 Acellular Pertussis; or (6) 4 each of Diphtheria, Tetanus, and Acellular Pertussis
  - 3 doses of Polio: (1) 3 OPV, (2) 3 IPV, or (3) combination of oral poliovirus vaccine (OPV) and inactivated poliovirus vaccine (IPV) totaling 3 doses
  - 1 dose of MMR: (1) MMR; (2) 1 M/R and 1 Mumps; (3) 1 R/M and 1 Measles; or (4) 1 each of Measles, Mumps, and Rubella
  - 3 doses of Hep B
  - 3 or 4 doses of HIB, depending on the vaccine administered
  - 1 dose of Varicella
  - 4 doses of Pneumococcal

# CRS Reports and Patient Lists

- National GPRA/GPRAMA Report Patient Lists
  - Active Clinical with 4:3:1:3\*:3:1:4
  - Active Clinical without 4:3:1:3\*:3:1:4
  - Active Immunization Package with 4:3:1:3\*:3:1:4
  - Active Immunization Package without 4:3:1:3\*:3:4
  - Active Clinical Pts not in Immunization Package denominator
- Selected Measures (Local) Report Patient List
  - Patients in any of the denominators with received vaccines listed
- All patient lists show the vaccines the patients received if they had the required number of doses for the vaccine

# Sample National GPRA Report

|      | REPORT   | %  | PREV YR | %  | CHG from  | BASE   | %  | CHG from |
|------|--|----|---------|----|-----------|--------|----|----------|
|      | PERIOD   |    | PERIOD  |    | PREV YR % | PERIOD |    | BASE %   |
| 3426 |  |    |         |    |           |        |    |          |
| 3427 |  |    |         |    |           |        |    |          |
| 3428 |  |    |         |    |           |        |    |          |
| 3429 | Active Clinical Pts 19-35 months                             | 64 | 42      |    |           | 55     |    |          |
| 3430 |  |    |         |    |           |        |    |          |
| 3431 | # w/ 4313*314 combo or w/Dx/Contraind/ NMI Refusal           | 5  | 7.8     | 0  | 0         | 7.8    | 0  | 7.8      |
| 3432 |  |    |         |    |           |        |    |          |
| 3433 | # w/ 4 doses DTaP or w/ Contraind/ NMI Refusal               | 27 | 42.2    | 4  | 9.5       | 32.7   | 9  | 16.4     |
| 3434 |  |    |         |    |           |        |    |          |
| 3435 | # w/ 3 doses Polio or w/ Dx/ Contraind/ NMI Refusal          | 36 | 56.3    | 13 | 31        | 25.3   | 12 | 21.8     |
| 3436 |  |    |         |    |           |        |    |          |
| 3437 | # w/ 1 dose MMR or w/ Dx/Contraind/ NMI Refusal              | 31 | 48.4    | 13 | 31        | 17.5   | 18 | 32.7     |
| 3438 |  |    |         |    |           |        |    |          |
| 3439 | # w/ 3-4 doses HIB or w/Contraind NMI Refusal                | 27 | 42.2    | 10 | 23.8      | 18.4   | 17 | 30.9     |
| 3440 |  |    |         |    |           |        |    |          |
| 3441 | # w/ 3 doses Hep B or w/ Dx/Contraind/ NMI Refusal           | 34 | 53.1    | 12 | 28.6      | 24.6   | 14 | 25.5     |
| 3442 |  |    |         |    |           |        |    |          |
| 3443 | # w/ 1 dose Varicella or w/ Dx/Contraind/ NMI Refusal        | 27 | 42.2    | 12 | 28.6      | 13.6   | 14 | 25.5     |
| 3444 |  |    |         |    |           |        |    |          |
| 3445 | # w/4 doses Pneumococcal or w/Dx/ Contraind/ NMI Refusal     | 7  | 10.9    | 2  | 4.8       | 6.2    | 0  | 10.9     |
| 3446 |  |    |         |    |           |        |    |          |
| 3447 | Active Imm Pkg Pts 19-35 mos (GPRAMA)                        | 52 |         | 0  |           |        | 0  |          |
| 3448 | # w/4313*314 combo or w/ Dx/ Contraind/ NMI Refusal (GPRAMA) | 5  | 9.6     | 0  | 0         | 9.6    | 0  | 9.6      |
| 3449 |  |    |         |    |           |        |    |          |
| 3450 | # w/ 4 doses Dtap or w/ Dx/ Contraind/ NMI Refusal           | 27 | 51.9    | 0  | 0         | 51.9   | 0  | 51.9     |
| 3451 |  |    |         |    |           |        |    |          |
| 3452 | # w/ 3 doses Polio or w/ Dx/ Contraind/ NMI Refusal          | 36 | 69.2    | 0  | 0         | 69.2   | 0  | 69.2     |

# Sample Selected Measures (Local) Report

| 1891 |   | REPORT | %    | PREV YR | %    | CHG from  | BASE   | %    | CHG from |
|------|---|--------|------|---------|------|-----------|--------|------|----------|
| 1892 |   | PERIOD |      | PERIOD  |      | PREV YR % | PERIOD |      | BASE %   |
| 1893 |   |        |      |         |      |           |        |      |          |
| 1894 | Active Clinical Pts 19-35 months                          | 64     |      | 42      |      |           | 55     |      |          |
| 1895 |   |        |      |         |      |           |        |      |          |
| 1896 | # w/ 4313*314 combo or w/Dx/Contraind/ NMI Refusal        | 5      | 7.8  | 0       | 0    | 7.8       | 0      | 0    | 7.8      |
| 1897 | A. # w/ Dx/Contraind/NMI Ref w/ % of Total 4313*314       | 1      | 20   | 0       | 0    | 20        | 0      | 0    | 20       |
| 1898 |   |        |      |         |      |           |        |      |          |
| 1899 | # w/ 4 doses DTaP or w/ Contraind/ NMI Refusal            | 27     | 42.2 | 4       | 9.5  | 32.7      | 9      | 16.4 | 25.8     |
| 1900 | A. # w/ Contraind/NMI Ref w/ % of Total DTaP              | 9      | 33.3 | 0       | 0    | 33.3      | 0      | 0    | 33.3     |
| 1901 |   |        |      |         |      |           |        |      |          |
| 1902 | # w/ 3 doses Polio or w/ Dx/ Contraind/ NMI Refusal       | 36     | 56.3 | 13      | 31   | 25.3      | 12     | 21.8 | 34.4     |
| 1903 | A. # w/ Dx/Contraind/NMI Ref w/ % of Total Polio          | 11     | 30.6 | 0       | 0    | 30.6      | 0      | 0    | 30.6     |
| 1904 |   |        |      |         |      |           |        |      |          |
| 1905 | # w/ 1 dose MMR or w/ Dx/Contraind/ NMI Refusal           | 31     | 48.4 | 13      | 31   | 17.5      | 18     | 32.7 | 15.7     |
| 1906 | A. # w/Dx/Contraind/NMI Ref w/ % of Total MMR             | 8      | 25.8 | 0       | 0    | 25.8      | 0      | 0    | 25.8     |
| 1907 |   |        |      |         |      |           |        |      |          |
| 1908 | # w/ 3-4 doses HIB or w/Contraind NMI Refusal             | 27     | 42.2 | 10      | 23.8 | 18.4      | 17     | 30.9 | 11.3     |
| 1909 | A. # w/ Contraind/NMI Ref w/ % of Total HIB               | 5      | 18.5 | 0       | 0    | 18.5      | 0      | 0    | 18.5     |
| 1910 |   |        |      |         |      |           |        |      |          |
| 1911 | # w/ 3 doses Hep B or w/ Dx/Contraind/ NMI Refusal        | 34     | 53.1 | 12      | 28.6 | 24.6      | 14     | 25.5 | 27.7     |
| 1912 | A. # w/ Dx/Contraind/NMI Ref w/ % of Total HEP B          | 8      | 23.5 | 0       | 0    | 23.5      | 0      | 0    | 23.5     |
| 1913 |   |        |      |         |      |           |        |      |          |
| 1914 | # w/ 1 dose Varicella or w/ Dx/Contraind/ NMI Refusal     | 27     | 42.2 | 12      | 28.6 | 13.6      | 14     | 25.5 | 16.7     |
| 1915 | A. # w/ Dx/Contraind/NMI Ref w/ % of Total Varicella      | 5      | 18.5 | 1       | 8.3  | 10.2      | 0      | 0    | 18.5     |
| 1916 |   |        |      |         |      |           |        |      |          |
| 1917 | # w/4 doses Pneumococcal or w/Dx/ Contraind/ NMI Refusal  | 7      | 10.9 | 2       | 4.8  | 6.2       | 0      | 0    | 10.9     |
| 1918 | A. # w/ Dx/ Contraind/ NMI Ref w/ % of Total Pneumococcal | 1      | 14.3 | 0       | 0    | 14.3      | 0      | 0    | 14.3     |

# Sample GPRA Patient List

|      |  |        |           |     |     |                    |            |             |   |
|------|--|--------|-----------|-----|-----|--------------------|------------|-------------|---|
| 3471 | Childhood Immunizations  |        |           |     |     |                    |            |             |   |
| 3472 |  |        |           |     |     |                    |            |             |   |
| 3473 | List of Active Clinical patients 19-35 months who received the                 |        |           |     |     |                    |            |             |   |
| 3474 | 4:3:1:3*:3:1:4 combination (4 DtaP, 3 Polio, 1 MMR, 3 or 4 Hib, 3 Hep B,       |        |           |     |     |                    |            |             |   |
| 3475 | 1 Varicella, 4 Pneumococcal).  |        |           |     |     |                    |            |             |   |
| 3476 |  |        |           |     |     |                    |            |             |   |
| 3477 | NOTE: Because age is calculated at the beginning of the Report Period,         |        |           |     |     |                    |            |             |   |
| 3478 | the patient's age on the list will be between 7-23 months.                     |        |           |     |     |                    |            |             |   |
| 3479 |  |        |           |     |     |                    |            |             |   |
| 3480 | UP=User Pop; AC=Active Clinical; AD=Active Diabetic; AAD=Active Adult Diabetic |        |           |     |     |                    |            |             |   |
| 3481 | PREG=Pregnant Female; IMM=Active IMM Pkg Pt; CHD=Active Coronary Heart Disease |        |           |     |     |                    |            |             |   |
| 3482 | HR-High Risk Patient   |        |           |     |     |                    |            |             |   |
| 3483 | PATIENT NAME   | HRN    | COMMUNITY | SEX | AGE | LAST MEDICAL VISIT | LAST VISIT | DENOMINATOR | NUMERATOR   |
| 3484 | -----  |        |           |     |     |                    |            |             |   |
| 3485 | PATIENT,GPRA1  | 000001 | SAMPLE1   | F   | 1   | 5/2/2003           | 5/2/2003   | UP,AC,IMM   | NMI DTaP/DTP; NMI Polio; Contra MMR; NMI Hib; NMI Hep B; Contra Vari; NMI Pneumo              |
| 3486 | PATIENT,GPRA2  | 000002 | SAMPLE1   | F   | 1   | 3/3/2003           | 3/3/2003   | UP,AC,IMM   | 4 DTaP/DTP; 3 Polio; MMR; 4 4-Dose Hib; 3 Hep B; Vari; 4 Pneumo; 2 Hep A; 3 Rota; 2 Influenza |
| 3487 | PATIENT,GPRA3  | 000003 | SAMPLE2   | F   | 0   | 12/16/2003         | 12/16/2003 | UP,AC,IMM   | 4 DTaP/DTP; 3 Polio; MMR; 3 3-Dose Hib; 3 Hep B; Vari; 4 Pneumo                               |
| 3488 | PATIENT,GPRA4  | 000004 | SAMPLE3   | F   | 1   | 12/1/2003          | 12/1/2003  | UP,AC,IMM   | 4 DTaP/DTP; 3 Polio; MMR; 3 3-Dose Hib; 3 Hep B; Vari; 4 Pneumo                               |
| 3489 | PATIENT,GPRA5  | 000005 | SAMPLE3   | M   | 1   | 12/8/2003          | 12/8/2003  | UP,AC,IMM   | 4 DTaP/DTP; 3 Polio; MMR; 3 3-Dose Hib; 3 Hep B; Vari; 4 Pneumo                               |

# Sample Selected Measures (Local) Patient List

|       |   |        |         |     |     |             |  |
|-------|---|--------|---------|-----|-----|-------------|--|
| 19601 | UP=User Pop; AC=Active Clinical; AD=Active Diabetic; AAD=Active Adult Diabetic  |        |         |     |     |             |  |
| 19602 | PREG=Pregnant Female; IMM=Active IMM Pkg Pt; CHD=Active Coronary Heart Disease; |        |         |     |     |             |  |
| 19603 | HR=High Risk Patient  |        |         |     |     |             |  |
| 19604 |   |        |         |     |     |             |  |
| 19605 | Childhood Immunizations: List of patients 19-35 months with IZ, if any. If a    |        |         |     |     |             |  |
| 19606 | patient did not have all doses in a multiple dose vaccine, the IZ will not be   |        |         |     |     |             |  |
| 19607 | listed. For example, if a patient only had 2 DTaP, no IZ will be listed for     |        |         |     |     |             |  |
| 19608 | DTaP. NOTE: Because age is calculated at the beginning of the Report Period,    |        |         |     |     |             |  |
| 19609 | the patient's age on the list will be between 7-23 months.                      |        |         |     |     |             |  |
| 19610 |   |        |         |     |     |             |  |
| 19611 | PATIENT NAME  | HRN    | COMMUN  | SEX | AGE | DENOMINATOR | NUMERATOR  |
| 19612 | -----   |        |         |     |     |             |  |
| 19613 | PATIENT,FIRST   | 000001 | SAMPLE1 | F   | 0   | UP,AC,IMM   | 4 DTaP/DTP; 3 Polio; MMR; 3 3-Dose Hib; 3 Hep B; Vari; 2 Influenza               |
| 19614 | PATIENT,SECOND  | 000002 | SAMPLE1 | F   | 0   | UP,AC,IMM   | Evid Polio; NMI ME&MU&RUB; Evid Hep B; Evid Vari                                 |
| 19615 | PATIENT,THIRD   | 000003 | SAMPLE1 | F   | 1   | UP,AC,IMM   | NMI DTaP/DTP; NMI Polio; 2 Hep A; 2 Influenza                                    |
| 19616 | PATIENT,FOURTH  | 000004 | SAMPLE1 | F   | 1   | UP          |  |
| 19617 | PATIENT,FIFTH   | 000005 | SAMPLE3 | M   | 0   | UP,AC,IMM   | NMI DTaP/DTP; NMI Polio; Vari; 2 Rota; 2 Influenza                               |
| 19618 | PATIENT,SIXTH   | 000006 | BRAGGS  | M   | 0   | UP,AC,IMM   | 4 DTaP/DTP; 3 Polio; 2 Influenza   |
| 19619 | PATIENT,SEVENTH   | 000007 | BRAGGS  | M   | 0   | UP,AC,IMM   | 4 DTaP/DTP; 3 Polio; MMR; 3 3-Dose Hib; 3 Hep B; Vari                            |
| 19620 | PATIENT,EIGHTH  | 000008 | SAMPLE2 | M   | 1   | UP          |  |
| 19621 | PATIENT,NINTH   | 000009 | SAMPLE2 | M   | 1   | UP,AC,IMM   | Evid Hep A; 2 Influenza  |
| 19622 | PATIENT,TENTH   | 000010 | SAMPLE2 | M   | 1   | UP,AC,IMM   | 4 DTaP/DTP; 3 Polio; MMR; 3 3-Dose Hib; 3 Hep B; Vari                            |
| 19623 | PATIENT,ELEVENTH  | 000011 | SAMPLE2 | F   | 0   | UP,AC,IMM   | NMI DTaP/DTP; NMI Polio; NMI 4-DOSE Hib; NMI Hep B; 2 Rota; NMI Influenza        |
| 19624 | PATIENT,TWELFTH   | 000012 | SAMPLE2 | F   | 1   | UP,AC,IMM   | 4 DTaP/DTP; 3 Polio; MMR; 3 3-Dose Hib; 3 Hep B; Vari; 2 Influenza               |
| 19625 | PATIENT,THIRTEENTH  | 000013 | SAMPLE3 | F   | 1   | UP,AC,IMM   | Vari; 3 Rota; 2 Influenza  |
| 19626 | PATIENT,FOURTEENTH  | 000014 | SAMPLE3 | F   | 1   | UP,AC,IMM   | NMI DTaP/DTP; NMI Polio; Contra MMR; NMI Hib; NMI Hep B; Contra Vari; NMI Pneumo |
| 19627 | PATIENT,FIFTEENTH   | 000015 | SAMPLE3 | F   | 1   | UP,AC       |  |

# Potential Reasons for Differences Between CRS and IMM Reports

- CRS requires patient's age to be 7–23 months at a fixed date (beginning of the Report Period), which makes patient 19–35 months at end of Report Period. IMM uses a different cohort of children for each quarter (i.e. as of *today*, how many are between 19–35 months old?).
- GPRA community taxonomy: was the same used for both reports?
- Patient population: were American Indian/Alaska Native (AI/AN) patients only used for both reports?
- Are there inactive patients in IMM that should be changed to active?
- IMM does not require 10 days (or any days) apart for series of vaccines, whereas CRS does.

# CRS Adolescent Immunizations Measures

- Included in the Selected Measures (Local) and Other National Measures (ONM) Reports
  - Denominators:
    - Active Clinical patients age 13, broken down by gender (Selected Measures)
    - Active Clinical patients age 13–17, broken down by gender (Selected Measures and ONM)

# CRS Adolescent Immunizations Measures (Continued)

- Included in the Selected Measures (Local) and ONM Reports (Continued)
  - Numerators
    - 1 Td/Tdap, 3 Hepatitis B, 2 MMR, 1 Varicella (Selected Measures and ONM)
    - 1 Td/Tdap, 1 Meningococcal, 3 HPV (Selected Measures and ONM)
    - 1 Td/Tdap, 1 Meningococcal (Selected Measures and ONM)
    - 1 Td/Tdap (Selected Measures and ONM)
    - 2 MMR (Selected Measures)
    - 3 Hepatitis B (Selected Measures)
    - 1 Varicella (Selected Measures)
    - 1 Meningococcal (Selected Measures and ONM)
    - 3 HPV ever (Selected Measures and ONM)

# CRS Adolescent Immunizations Measures (Continued)

- Most CRS numerators include one sub-numerator:
  - Patients with (1) evidence of the disease, (2) a contraindication, or (3) a documented NMI refusal

# CRS Adolescent Immunizations Measures (Continued)

- CRS dosage logic
  - 1 dose of Td or Tdap
  - 2 doses of MMR: (1) 2 MMRs; (2) 2 M/R and 2 Mumps; (3) 2 R/M and 2 Measles; or (4) 2 each of Measles, Mumps, and Rubella
  - 3 doses of Hep B or 2 doses IF documented with CPT 90743
  - 1 dose of Varicella
  - 1 dose of Meningococcal
  - 3 doses of HPV
- Uses same logic as Childhood Immunizations measures

For more information,  
visit our Web site:

[www.ihp.gov/crs](http://www.ihp.gov/crs)



# Don't Forget to Join the CRS Listserv

1. Go the CRS Listserv page (URL shown below).

[http://www.ihs.gov/crs/index.cfm?module=crs\\_listserv](http://www.ihs.gov/crs/index.cfm?module=crs_listserv)

2. Click Subscribe link.
3. An e-mail window displays. Click **Send**.
4. You will receive an e-mail response with the following message in the text:

Your command:

SUBSCRIBE CRS [Your Last Name, Your First Name] (IHS/NPA)  
has been received. You must now reply to this message (as explained below) to complete your subscription. The purpose of this confirmation procedure is to make sure that you have indeed requested to be added to the list.

To confirm the execution of your command, simply click on the following URL

[URL for command response in email]

5. You will receive a direct confirmation of subscription from the listserv server and a CRS listserv confirmation e-mail.

# CRS Contacts

|                              |   |  |
|------------------------------|---|--|
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