

# CRS Childhood Immunizations Measures

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#### CRS GPRA Measure

- User Population patients ages 19-35
  months active in IMM with the 4:3:1:3:3
  combination, including refusals,
  contraindications, and evidence of
  disease.
  - Beginning in 2007, the GPRA rate will be reported by CRS vs. the Immunization
     Program

#### **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 defined as
    - Must be Indian/Alaska Native, based on Beneficiary classification 01, and
    - Must reside in a community specified in the site's GPRA community taxonomy, and
    - Must be alive on last day of Report Period, and
    - 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, 16 Obstetrics, 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 (cont'd)

- 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, and
    - Must reside in a community specified in the site's GPRA community taxonomy, and
    - Must be alive on last day of Report Period, and
    - Must have one visit to any clinic in the past 3 years
  - Only included in the Selected Measures (Local) Reports

#### CRS Denominators (cont'd)

- 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), and
  - 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, 2006 June 30, 2007
    - Immunization Package Status: Inactive
    - Inactive Date: May 1, 2007
    - Patient is not included in this denominator

#### CRS Denominators (cont'd)

- GPRA Denominator (cont'd)
  - 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 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 refusal
  - Refusals include both Parent and Patient Refusals entered into IMM and refusals for service (REF) entered into PCC
  - For immunizations where required number of doses is >1 (e.g. 3 Hepatitis B), only one refusal is necessary to be counted in the numerator
  - Contraindications include
    - IMM contraindications
    - Not medically indicated (NMI) refusals entered into PCC
    - Diagnosis codes for specific conditions (e.g. HIV)

#### **CRS Numerators**

- Most CRS numerators include two subnumerators
  - Patients with documented REF refusal in PCC or Parent or Patient refusal in the IZ program
  - Patients with (1) evidence of the disease, (2)
     a contraindication, or (3) a documented NMI
     (not medically indicated) refusal

## CRS Numerators (cont'd)

Childhood Immunizations Numerator	National GPRA Report?	Selected Measures (Local) Report?
GPRA: 4:3:1:3:3	Υ	Y
4 DTaP	Y	Υ
3 Polio	Y	Υ
1 MMR	Y	Υ
3 Hib	Y	Υ
3 Hepatitis B	Y	Υ
1 Varicella	N	Υ
4 Pneumococcal	N	Y

## CRS Numerators (cont'd)

Numerator	National GPRA Report?	Selected Measures (Local) Report?
With All Immunizations (4 DTaP, 3 Polio, 1 MMR, 3 Hib, 3 Hepatitis B, 1 Varicella, and 4 Pneumococcal)	N	Y
Immunization Program Numerator: With All Immunizations NOT including evidence of disease, contraindications, or refusals	N	Y
Immunization Program Numerator: 4:3:1:3:3 NOT including evidence of disease, contraindications, or refusals	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 (cont'd)

#### 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 Pertussis; 5) 4 Td and 4 Pertussis; or 6) 4 each of Diphtheria, Tetanus, and Pertussis
- 3 doses of Polio: 1) 3 OPV; 2) 3 IPV; or 3) combination of OPV
   & 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 OR 2 doses IF documented with CPT 90743
- 3 doses of HIB
- 1 dose of Varicella
- 4 doses of Pneumococcal

#### CRS Reports & Patient Lists

- National GPRA Report Patient Lists
  - Active Clinical with 4:3:1:3:3
  - Active Clinical without 4:3:1:3:3
  - User Pop Immunization Package with 4:3:1:3:3
  - User Pop Immunization Package without 4:3:1:3:3
  - 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 had if they had the required number of doses for the vaccine

## Sample National GPRA Report

935									
936		REPORT	*	PREV YR	*	CHG from	BASE	*	CHG from
937		PERIOD		PERIOD		PREV YR %	PERIOD		BASE %
938									
	Active Clinical Pts 19-35			•					
939	months	51		39			55		
940									
								•	
	# w/ 4:3:1:3:3 combo or								
941	w/ Dx/ Contraind/ Refusal	11	21.6	4	10.3	+11.3	6	10.9	+10.7
942				İ					
	# w/ 4 doses DTaP or w/			•					
943	Dx/ Contraind/Refusal	14	27.5	4	10.3	+17.2	9	16.4	+11.1
944									
	# w/ 3 doses Polio or w/								
945	Dx/ Contraind/Refusal	19	37.3	11	28.2	+9.0	13	23.6	+13.6
946									
	# w/ 1 dose MMR or w/							•	
947	Dx/Contraind/ Refusal	18	35.3	11	28.2	+7.1	19	34.5	+0.7
948									
	# w/ 3 doses HIB or								
949	w/Dx/Contraind/ Refusal	17	33.3	9	23.1	+10.3	14	25.5	+7.9
950									
	# w/ 3 doses Hep B or w/								
	Dx/Contraind/ Refusal	17	33.3	10	25.6	+7.7	14	25.5	+7.9
952									
	Active Imm Pkg Pts 19-35								
953	months (GPRA)	27		o			o		
954									

# Sample Selected Measures (Local) Report

1334		REPORT	*	PREV YR	*	CHG from	BASE	*	CHG from
1335		PERIOD		PERIOD		PREV YR	PERIOD		BASE %
1336									
1337	Active Clinical Pts 19-35 months	51		39			55		
1338									
	# w/ 4:3:1:3:3 combo or w/ Dx/								
1339	Contraind/ Refusal	11	21.6	4	10.3	+11.3	6	10.9	+10.7
1340									
1341	A. Refusals w/ % of Total all IZ	0	0.0	0	0.0	+0.0	0	0.0	+0.0
1342									
	B. # w/ Dx/Contraind/NMI Ref w/								
1343	% of Total IZ	0	0.0	0	0.0	+0.0	0	0.0	+0.0
1344									
	# w/ 4 doses DTaP or w/ Dx/	<b></b>							
$\overline{}$	Contraind/Refusal		27.5	4	10.3	+17.2	9	16.4	+11.1
1346									
-	A. # Refusals w/ % of Total DTaP	0	0.0	0	0.0	+0.0	0	0.0	+0.0
1348									
	B. # w/ Dx/Contraind/NMI Ref w/								
1349	% of Total DTaP	1	7.1	0	0.0	+7.1	0	0.0	+7.1
1350									
	# w/ 3 doses Polio or w/ Dx/								
1351	Contraind/Refusal	19	37.3	11	28.2	+9.0	13	23.6	+13.6
1352									
	A. # Refusals w/ % of Total								
1353	Polio	0	0.0	0	0.0	+0.0	0	0.0	+0.0
1051									

## Sample Patient List

	•		_				
_	Α	В	C	D	E	F	G
1	UP=User Pop; AC=Active Clinical; AD=Active Diabetic;						
2	AAD=Active Adult Diabetic; PREG=Pregnant Female;						
3	IMM=Active IMM Pkg	Pt; IHD=	Active Ische	mic H	eart I	Disease	
4							
5	Childhood Immunizat	ions: Li	st of patien	ts 19	-35 mc	onths with IZ	Z, if any.
6	If a patient did no	t have a	ll doses in	a mul	tiple	dose vaccine	e, the IZ
7	will not be listed.	For exa	mple, if a p	atien	t only	y had 2 DTaP,	no IZ will
8	be listed for DTaP.						
9							
10	PATIENT NAME	HRN	COMMUNITY	SEX	AGE	DENOMINATOR	NUMERATOR
11							
12	PATIENT, FIRST	000001	SAMPLE #1	F	o	UP; AC; IMM	4 Dtap/Dtp;3 OPV;MMR;3 HIB;3 HEP;vari
13	PATIENT, SECOND	000002	SAMPLE #1	F	1	UP; AC	
14	PATIENT, THIRD	000003	SAMPLE #1	F	1	UP	
15	PATIENT, FOURTH	000004	SAMPLE #1	M	o	UP; AC; IMM	4 Dtap/Dtp;3 OPV;MMR;3 HIB;3 HEP;vari
16	PATIENT, FIFTH	000005	SAMPLE #1	M	o	UP; AC; IMM	;vari
17	PATIENT, SIXTH	000006	SAMPLE #1	M	o	UP; AC; IMM	
18	PATIENT, SEVENTH	000007	SAMPLE #1	M	1	UP	
19	PATIENT, EIGHTH	000008	SAMPLE #1	M	1	UP; AC; IMM	
20	PATIENT, NINTH	000009	SAMPLE #1	M	1	UP; AC; IMM	4 Dtap/Dtp;3 OPV;MMR;3 HIB;3 HEP;vari
21	PATIENT, TENTH	000010	SAMPLE #2	F	o	UP; AC	
22	PATIENT, ELEVENTH	000011	SAMPLE #3	F	1	UP; AC; IMM	4 Dtap/Dtp;3 OPV;MMR;3 HIB;3 HEP;vari
23	PATIENT, TWELFTH	000012	SAMPLE #3	F	1	UP; AC	
24	PATIENT, THIRTEENTH	000013	SAMPLE #3	M	o	UP; AC; IMM	;3 OPV;MMR;3 HIB;3 HEP;vari
25	PATIENT, FOURTEENTH	000014	SAMPLE #3	M	o	UP; AC; IMM	;3 OPV
26	PATIENT, FIFTEENTH	000015	SAMPLE #4	F	o	UP; AC; IMM	4 Dtap/Dtp;3 OPV;MMR;3 HIB;3 HEP;vari
27							

# 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 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 only in the Selected Measures (Local) Reports
  - Denominator: Active Clinical patients age 13
  - Numerators
    - 2 MMR, 3 Hepatitis B, 1 Varicella
    - 2 MMR
    - 3 Hepatitis B
    - 1 Varicella
  - Uses same logic as Childhood Immunizations measures
  - New denominators & numerators to be added in CRS 8.0



# For more info, visit:



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