

## Childhood Immunization Status (Combo 10)

### Metric Information

**Metric description:** The percentage of children 2 years of age who, by their second birthday, received all vaccinations in the combination 10 vaccination set. This vaccination set includes:

- 4 diphtheria, tetanus and acellular pertussis (DTaP) vaccinations;
- 3 polio (IPV) vaccinations;
- 1 measles, mumps and rubella (MMR) vaccination;
- 3 haemophilus influenza type B (HiB) vaccinations;
- 3 hepatitis B (HepB) vaccinations;
- 1 chicken pox (VZV) vaccination;
- 4 pneumococcal conjugate (PCV) vaccinations;
- 1 hepatitis A (HepA) vaccination;
- 2 or 3 rotavirus (RV) vaccination;
- 2 influenza (flu) vaccines.

Parental refusal/religious exemption or other documentation that may be captured by the Washington Immunization Information System (WIIS) are counted as “unvaccinated” and not separately specified.

**Metric specification version:** HEDIS® 2018 Technical Specifications for Health Plans, NCQA.

**Data collection method:** Administrative only.

**Data source:** ProviderOne Medicaid claims/encounter and enrollment data and the Washington Immunization Information System (WIIS).

**Claim status:** Include only final paid claims or accepted encounters in metric calculation.

**Identification window:** Measurement year and up to 24 months prior to the start of the measurement year.

**Direction of quality improvement:** Higher is better.

**URL of specifications:** [www.ncqa.org/hedis/measures](http://www.ncqa.org/hedis/measures)

### DSRIP Program Summary

**Metric utility:** ACH Project P4P  ACH High Performance  DSRIP statewide accountability

**ACH Project P4P – Metric results used for achievement value:** Single metric result.

**ACH Project P4P – improvement target methodology:** gap to goal.

**ACH Project P4P gap to goal - absolute benchmark value:**

DY 3/performance year 1 (2019)	62.16% 2017 NCQA Quality Compass National Medicaid, 90 <sup>th</sup> Percentile
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DY 4/performance year 2 (2020)	TBD 2018 NCQA Quality Compass National Medicaid, 90 <sup>th</sup> Percentile
DY 5/performance year 3 (2021)	TBD 2019 NCQA Quality Compass National Medicaid, 90 <sup>th</sup> Percentile

**ACH regional attribution:** Residence in the ACH region for 11 out of 12 months in the measurement year.

### DSRIP Metric Details

Eligible Population	
Age	Children who turn 2 years of age during the measurement year.
Gender	N/A
Minimum Medicaid enrollment	12 months prior to the child's second birthday. Enrollment must be continuous.
Allowable gap in Medicaid enrollment	One gap of one month during the measurement year.
Medicaid enrollment anchor date	Child's second birthday.
Medicaid benefit and eligibility	Includes Medicaid beneficiaries with comprehensive medical benefits. Excludes beneficiaries that are eligible for both Medicare and Medicaid and beneficiaries with primary insurance other than Medicaid.

**Denominator:**

*Data elements required for denominator:* Children who turn 2 years of age during the measurement year based on eligibility criteria above.

*Required exclusions for denominator.*

- Eligible population exclusions are listed in the eligible population table above.
- Metric specific exclusions:
  - o Beneficiaries in hospice care.

*Deviations from cited specifications for denominator.*

- HEDIS® specifications require no more than one gap in continuous enrollment of up to 45 days during each year of continuous enrollment. To determine continuous enrollment for a Medicaid beneficiary for whom enrollment is verified monthly, as is the case for the ProviderOne data source, the Medicaid beneficiary may not have more than a 1-month gap in coverage (i.e., a Medicaid beneficiary whose coverage lapses for 2 months [60 days] is not considered continuously enrolled).

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### **Numerator:**

Beneficiaries must qualify for inclusion in the denominator to be eligible for inclusion in the numerator.

*Data elements required for the numerator:* Data elements differ for each vaccination type in the Combo 10.

For MMR, hepatitis B, VZV and hepatitis A, count any of the following:

- Evidence of the antigen or combination vaccine, **or**
- Documented history of the illness, **or**
- A seropositive test result for each antigen.

For DTaP, IPV, HiB, pneumococcal conjugate, rotavirus and influenza, count only:

- Evidence of the antigen or combination vaccine.

Since this is a metric for combination vaccinations that require more than one antigen (i.e., DTaP and MMR), evidence of all vaccinations must be found.

Below are more specific requirements of each of the vaccinations in this metric. All vaccinations (with the exception of MMR) must meet General Guideline 38 (i.e. the 14 day rule which specifies that vaccinations must be given 14 days apart to avoid double counting events).

*DTaP:* At least four DTaP vaccinations (DTaP Vaccine Administered Value Set), with different dates of service on or before the child's second birthday. Do not count a vaccination administered prior to 42 days after birth.

*IPV:* At least three IPV vaccinations (Inactivated Polio Vaccine (IPV) Administered Value Set), with different dates of service on or before the child's second birthday. Do not count a vaccination administered prior to 42 days after birth.

*MMR:* Any of the following on or before the child's second birthday meet criteria:

- At least one MMR vaccination (Measles, Mumps and Rubella (MMR) Vaccine Administered Value Set).
- At least one measles and rubella vaccination (Measles/Rubella Vaccine Administered Value Set) and at least one mumps vaccination or history of the illness (Mumps Vaccine Administered Value Set; Mumps Value Set) on the same date of service or on different dates of service.
- At least one measles vaccination or history of the illness (Measles Vaccine Administered Value Set; Measles Value Set) and at least one mumps vaccination or history of the illness (Mumps Vaccine Administered Value Set; Mumps Value Set) and at least one rubella vaccination or history of the illness (Rubella Vaccine Administered Value Set; Rubella Value Set) on the same date of service or on different dates of service.  
(Note that the General Guideline 38 (i.e., the 14-day rule) does not apply to MMR.)

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**HiB:** At least three HiB vaccinations (Haemophilus Influenzae Type B (HiB) Vaccine Administered Value Set), with different dates of service on or before the child's second birthday. Do not count a vaccination administered prior to 42 days after birth.

**Hepatitis B:** Any of the following on or before the child's second birthday meet criteria:

- At least three hepatitis B vaccinations (Hepatitis B Vaccine Administered Value Set), with different dates of service.
  - o One of the three vaccinations can be a newborn hepatitis B vaccination (Newborn Hepatitis B Vaccine Administered Value Set) during the eight-day period that begins on the date of birth and ends seven days after the date of birth. For example, if the Medicaid beneficiary's date of birth is December 1, the newborn hepatitis B vaccination must be on or between December 1 and December 8.
- History of hepatitis illness (Hepatitis B Value Set).

**VZV:** Either of the following on or before the child's second birthday meet criteria:

- At least one VZV vaccination (Varicella Zoster (VZV) Vaccine Administered Value Set), with a date of service on or before the child's second birthday.
- History of varicella zoster (e.g., chicken pox) illness (Varicella Zoster Value Set).

**Pneumococcal conjugate:** At least four pneumococcal conjugate vaccinations (Pneumococcal Conjugate Vaccine Administered Value Set), with different dates of service on or before the child's second birthday. Do not count a vaccination administered prior to 42 days after birth.

**Hepatitis A:** Either of the following on or before the child's second birthday meet criteria:

- At least one hepatitis A vaccination (Hepatitis A Vaccine Administered Value Set), with a date of service on or before the child's second birthday.
- History of hepatitis A illness (Hepatitis A Value Set).

**Rotavirus:** Any of the following on or before the child's second birthday meet criteria. Do not count a vaccination administered prior to 42 days after birth.

- At least two doses of the two-dose rotavirus vaccine (Rotavirus Vaccine (2 Dose Schedule) Administered Value Set) on different dates of service.
- At least three doses of the three-dose rotavirus vaccine (Rotavirus Vaccine (3 Dose Schedule) Administered Value Set) on different dates of service.
- At least one dose of the two-dose rotavirus vaccine (Rotavirus Vaccine (2 Dose Schedule) Administered Value Set) and at least two doses of the three-dose rotavirus vaccine (Rotavirus Vaccine (3 Dose Schedule) Administered Value Set), all on different dates of service.

**Influenza:** At least two influenza vaccinations (Influenza Vaccine Administered Value Set), with different dates of service on or before the child's second birthday. Do not count a vaccination administered prior to 6 months (180 days) after birth.

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*Value sets required for numerator.*

Name	Value Set
DTaP Vaccine Administered Value Set	See HEDIS®
Inactivated Polio Vaccine (IPV) Administered Value Set	See HEDIS®
Measles, Mumps and Rubella (MMR) Vaccine Administered Value Set	See HEDIS®
Measles/Rubella Vaccine Administered Value Set	See HEDIS®
Mumps Vaccine Administered Value Set	See HEDIS®
Mumps Value Set	See HEDIS®
Measles Vaccine Administered Value Set	See HEDIS®
Measles Value Set	See HEDIS®
Rubella Vaccine Administered Value Set	See HEDIS®
Rubella Value Set	See HEDIS®
Haemophilus Influenzae Type B (HiB) Vaccine Administered Value Set	See HEDIS®
Hepatitis B Vaccine Administered Value Set	See HEDIS®
Newborn Hepatitis B Vaccine Administered Value Set	See HEDIS®
Hepatitis B Value Set	See HEDIS®
Varicella Zoster (VZV) Vaccine Administered Value Set	See HEDIS®
Varicella Zoster Value Set	See HEDIS®
Pneumococcal Conjugate Vaccine Administered Value Set	See HEDIS®
Hepatitis A Vaccine Administered Value Set	See HEDIS®
Hepatitis A Value Set	See HEDIS®
Rotavirus Vaccine (2 Dose Schedule) Administered Value Set	See HEDIS®
Rotavirus Vaccine (3 Dose Schedule) Administered Value Set	See HEDIS®
Influenza Vaccine Administered Value Set	See HEDIS®

*Required exclusions for numerator.*

- None

*Deviations from cited specifications for numerator.*

- The Washington State Immunization Information System may include CPT codes that are not typically used for children (i.e. adult codes where child codes are specified). These vaccine-specific CPT codes are included in the metric.

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### Version Control

**July 2018 release:** The specification was updated to HEDIS® 2018 specifications.

**January 2019 update:** Minor formatting updates were made to the metric specification sheet. This includes updating the URL of the source specification and changing HEDIS™ to HEDIS®. No substantive changes were made to the specification.