



Complete Summary

TITLE

Immunizations: percentage of two-year-olds who are up-to-date with their primary series of immunizations (DTaP, IPV, MMR, PCV7, VZV, Hib, Hep B).

SOURCE(S)

Institute for Clinical Systems Improvement (ICSI). Immunizations. Bloomington (MN): Institute for Clinical Systems Improvement (ICSI); 2004 Jun. 56 p. [61 references]

Brief Abstract

DESCRIPTION

This measure assesses the percentage of two-year-olds who are up-to-date with their primary series of immunizations (DTaP, IPV, MMR, PCV7, VZV, Hib, Hep B).

RATIONALE

The priority aim addressed by this measure is to increase the rate of people up-to-date with recommended immunizations.

PRIMARY CLINICAL COMPONENT

Immunization; diphtheria and tetanus toxoids with acellular pertussis (DTaP); inactivated poliovirus vaccine (IPV); measles, mumps, rubella (MMR); pneumococcal 7 valent conjugated polysaccharide vaccine (PCV7); varicella (VZV); Haemophilus influenza type b (Hib); Hepatitis B (Hep B)

DENOMINATOR DESCRIPTION

Number of children in the medical group's practice reaching the age of 2 years within the reporting month (see the related "Denominator Inclusions/Exclusions" field in the Complete Summary)

NUMERATOR DESCRIPTION

Number of children in the denominator who are up-to-date with their primary series of immunizations (see the related "Numerator Inclusions/Exclusions" field in the Complete Summary)

Evidence Supporting the Measure

PRIMARY MEASURE DOMAIN

Process

SECONDARY MEASURE DOMAIN

Not applicable

EVIDENCE SUPPORTING THE MEASURE

A clinical practice guideline or other peer-reviewed synthesis of the clinical evidence

NATIONAL GUIDELINE CLEARINGHOUSE LINK

- [Immunizations.](#)

Evidence Supporting Need for the Measure

NEED FOR THE MEASURE

Unspecified

State of Use of the Measure

STATE OF USE

Current routine use

CURRENT USE

Internal quality improvement

Application of Measure in its Current Use

CARE SETTING

Physician Group Practices/Clinics

PROFESSIONALS RESPONSIBLE FOR HEALTH CARE

Physicians

LOWEST LEVEL OF HEALTH CARE DELIVERY ADDRESSED

Group Clinical Practices

TARGET POPULATION AGE

Age 2 years

TARGET POPULATION GENDER

Either male or female

STRATIFICATION BY VULNERABLE POPULATIONS

Unspecified

Characteristics of the Primary Clinical Component

INCIDENCE/PREVALENCE

Unspecified

ASSOCIATION WITH VULNERABLE POPULATIONS

Unspecified

BURDEN OF ILLNESS

In children with pneumococcal meningitis, 10 to 15% die and 25% are left with hearing loss.

The rates of hospitalization due to influenza in infants age 6 to 23 months are similar to that in the elderly.

EVIDENCE FOR BURDEN OF ILLNESS

Institute for Clinical Systems Improvement (ICSI). Immunizations. Bloomington (MN): Institute for Clinical Systems Improvement (ICSI); 2004 Jun. 56 p. [61 references]

UTILIZATION

Unspecified

COSTS

Unspecified

Institute of Medicine National Healthcare Quality Report Categories

IOM CARE NEED

Staying Healthy

IOM DOMAIN

Effectiveness

Data Collection for the Measure

CASE FINDING

Users of care only

DESCRIPTION OF CASE FINDING

Children who reach their second birthday during the specified time period

Select a random sample of the eligible population for data collection. The suggested sample size for each medical group is at least 10 each month. If the medical group identifies a total of less than 10 children, then all identified children are to be included.

The medical record of each child is reviewed to determine if each of the required immunizations is documented. A child should be considered up-to-date with the immunization if and only if a date and type of vaccination are documented in the medical record. Alternatively, immunization status may be determined by the medical group using administrative data or other computer records.

The suggested time period for data collection is a calendar month.

DENOMINATOR SAMPLING FRAME

Patients associated with provider

DENOMINATOR (INDEX) EVENT

Encounter
Patient Characteristic

DENOMINATOR INCLUSIONS/EXCLUSIONS

Inclusions

Number of children in the medical group's practice* reaching the age of 2 years within the reporting month

*"In the medical group's practice" is defined as a child who has been seen two or more times by the medical group (including office visits and urgent care) by his/her second birthday. At least one visit should be after the child reaches 15 months of age.

Exclusions

Unspecified

NUMERATOR INCLUSIONS/EXCLUSIONS

Inclusions

Number of children in the denominator who are up-to-date with their primary series of immunizations*

*A child is up-to-date with recommended immunizations if:

- DTaP: 4 doses
- IPV: 3 doses
- MMR: 1 dose greater than or equal to 1 year old
- PCV7:
 - 3 doses (first dose less than or equal to 6 months; second and third doses 2 months apart; booster greater than 1 year old)

or

 - 2 doses (first dose 7 to 11 months; second dose 2 months after first dose; booster greater than 1 year old)

or

 - 2 doses (first dose 12 to 23 months; second dose 2 months after first dose)
- VZV: 1 dose or documented history of varicella
- Hib:
 - 3 doses Comvax or Pedvax (PRP-OMP) (complete series)

or

 - 4 doses HIBTITER (HbOC) or ActHIB or OmniHib (PRP-T) (complete series)

or

 - booster dose given greater than or equal to 1 year old

or

 - 1 dose greater than or equal to 15 months (HbOC, PRP-T, PRP-OMP or Prohibit Trihibit [PRP-D])
- Hep B: 3 doses (all 3 given within 18 months of the first Hep B dose)

Exclusions

Unspecified

DENOMINATOR TIME WINDOW

Time window precedes index event

NUMERATOR TIME WINDOW

Fixed time period

DATA SOURCE

Administrative data
Medical record

LEVEL OF DETERMINATION OF QUALITY

Individual Case

PRE-EXISTING INSTRUMENT USED

Unspecified

Computation of the Measure

SCORING

Rate

INTERPRETATION OF SCORE

Better quality is associated with a higher score

ALLOWANCE FOR PATIENT FACTORS

Unspecified

STANDARD OF COMPARISON

Internal time comparison

Evaluation of Measure Properties

EXTENT OF MEASURE TESTING

Unspecified

Identifying Information

ORIGINAL TITLE

Percentage of two-year-olds who are up-to-date with their primary series of immunizations (DTaP, IPV, MMR, PCV7, VZV, Hib, Hep B).

MEASURE COLLECTION

[Immunizations Measures](#)

DEVELOPER

Institute for Clinical Systems Improvement

ADAPTATION

Measure was not adapted from another source.

RELEASE DATE

2003 Jul

REVISION DATE

2004 Jun

MEASURE STATUS

This is the current release of the measure.

This measure updates a previous version: Institute for Clinical Systems Improvement (ICSI). Immunizations. Bloomington (MN): Institute for Clinical Systems Improvement (ICSI); 2003 Jul. 51 p.

SOURCE(S)

Institute for Clinical Systems Improvement (ICSI). Immunizations. Bloomington (MN): Institute for Clinical Systems Improvement (ICSI); 2004 Jun. 56 p. [61 references]

MEASURE AVAILABILITY

The individual measure, "Percentage of two-year-olds who are up-to-date with their primary series of immunizations (DTaP, IPV, MMR, PCV7, VZV, Hib, Hep B)," is published in "Health Care Guideline: Immunizations." This document is available from the [Institute for Clinical Systems Improvement \(ICSI\) Web site](#).

For more information, contact ICSI at, 8009 34th Avenue South, Suite 1200, Bloomington, MN 55425; phone: 952-814-7060; fax: 952-858-9675; Web site: www.icsi.org; e-mail: icsi.info@icsi.org.

NQMC STATUS

This NQMC summary was completed by ECRI on April 19, 2004. This summary was updated by ECRI on October 11, 2004.

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