14

Immunization and Infectious Diseases

Diseases Preventable Through Universal Vaccination

14-1	Vaccine-preventable diseases
14-1a	Congenital rubella syndrome
14-1b	Diphtheria
14-1c	Haemophilus influenzae type b
14-1d	Hepatitis B
14-1e	Measles
14-1f	Mumps
14-1g	Pertussis
14-1h	Polio (wild-type virus)
14-1i	Rubella
14-1j	Tetanus
14-1k	Varicella (chicken pox)
14-2	Hepatitis B in infants and young children
14-3	Hepatitis B in adults and high-risk groups
14-3a	19 to 24 years
14-3b	25 to 39 years
14-3c	40 years and older
14-3d	Injection drug users
14-3e	Heterosexually active persons
14-3f	Men who have sex with men
14-3g	Occupationally exposed workers
14-4	Bacterial meningitis in young children

14-5	Invasive pneumococcal infections
	New invasive pneumococcal infections:
14-5a	Children under age 5 years
14-5b	Adults aged 65 years and older
	Invasive penicillin-resistant pneumococcal infections:
14-5c	Children under age 5 years
14-5d	Adults aged 65 years and older
Disea	ses Preventable Through Targeted Vaccination
14-6	Hepatitis A
14-7	Meningococcal disease
14-8	Lyme disease
Infect	ious Diseases and Emerging Antimicrobial Resistance
14-9	Hepatitis C
14-10	Identification of persons with chronic hepatitis C
14-11	Tuberculosis
14-12	Curative therapy for tuberculosis
14-13	Treatment for high-risk persons with latent tuberculosis infection
14-14	Timely laboratory confirmation of tuberculosis cases
14-15	Prevention services for international travelers
14-16	Invasive early onset group B streptococcal disease
14-17	Peptic ulcer hospitalizations
14-18	Antibiotics prescribed for ear infections
14-19	Antibiotics prescribed for common cold
14-20	Hospital-acquired infections
	Adults:
14-20a	Catheter-associated urinary tract infection
14-20b	Central line-associated bloodstream infection
14-20c	Ventilator-associated pneumonia
	Infants less than or equal to 1000g:
14-20d	Central line-associated bloodstream infection
14-20e	Ventilator-associated pneumonia
14-21	Antimicrobial use in intensive care units

Vaccination Coverage and Strategies

14-22	Universally recommended vaccination of children aged 19 to 35 months
14-22a	4 doses diphtheria-tetanus-pertussis (DTaP) vaccine
14-22b	3 doses Haemophilus influenzae type b (Hib) vaccine
14-22c	3 doses hepatitis B vaccine (hep B)
14-22d	1 dose measles-mumps-rubella (MMR) vaccine
14-22e	3 doses polio vaccine
14-22f	1 dose varicella vaccine
14-23	Vaccination coverage for children in day care, kindergarten, and first
	grade
	Day care:
14-23a	Diphtheria-tetanus-acellular pertussis (DTaP) vaccine
14-23b	Measles/mumps/rubella vaccines
14-23c	Polio vaccine
14-23d	Hepatitis B vaccine
14-23e	Varicella vaccine
	K through 1st grade:
14-23f	Diphtheria-tetanus-pertussis (DTaP) vaccine
14-23g	Measles/mumps/rubella vaccines
14-23h	Polio vaccine
14-23i	Hepatitis B vaccine
14-23j	Varicella vaccine
14-24	Fully immunized young children and adolescents
14-24a	Children aged 19 to 35 months
14-24b	Adolescents aged 13 to 15 years
14-25	Providers who measure childhood vaccination coverage levels
14-25a	Public health providers
14-25b	Private providers
14-26	Children participating in population-based immunization registries
14-27	Vaccination coverage among adolescents
14-27a	Hepatitis B
14-27b	Measles-mumps-rubella
14-27c	Tetanus-diphtheria booster
14-27d	Varicella
14-28	Hepatitis B vaccination among high-risk groups
14-28a	Long-term hemodialysis patients
14-28b	Men who have sex with men
14-28c	Occupationally exposed workers

14-29	Influenza and pneumococcal vaccination of high-risk adults
	Noninstitutionalized adults 65 years and over
14-29a	Influenza vaccine
14-29b	Pneumococcal vaccine
	Noninstitutionalized high-risk adults 18 to 64 years
14-29c	Influenza vaccine
14-29d	Pneumococcal vaccine
	Institutionalized adults
14-29e	Influenza vaccine
14-29f	Pneumococcal vaccine

Vaccine Safety

14-30	Adverse events from vaccinations
14-30a	Vaccine-associated paralytic polio
14-30b	Febrile seizures following pertussis vaccines
14-31	Active surveillance for vaccine safety

Diseases Preventable Through Universal Vaccination

14-1. Reduce or eliminate indigenous cases of vaccinepreventable diseases.

14-1a. Congenital rubella syndrome (children under age 1 year).

National Data Source National Congenital Syndrome Registry, CDC,

NCID.

State Data Source National Congenital Syndrome Registry, CDC,

NCID.

Healthy People 2000

Objective

20.1 (Immunization and Infectious Diseases).

Measure Number.

Baseline 7 (1998).

Numerator Number of confirmed and probable cases of

congenital rubella syndrome among children under

age 1 year.

Denominator Not applicable.

Population Targeted U.S. resident population.

Questions Used To

Obtain the National

Data

CDC Congenital Rubella Syndrome Case Report,

Form 71.17, Rev. 03/97.

Expected Periodicity Annual.

Comments A case definition for confirmed and probable cases

of congenital rubella syndrome is available from

CDC.1

See Appendix A for focus area contact information.

***** * *

14-1b. Diphtheria (persons under age 35 years).

National Data Source National Notifiable Disease Surveillance System

(NNDSS), CDC, EPO.

State Data Source National Notifiable Disease Surveillance System

(NNDSS), CDC, EPO.

Healthy People 2000

Objective

Adapted from 20.1 (Immunization and Infectious

Diseases).

Measure

Number.

Baseline

1 (1998).

Numerator

Number of confirmed cases of diphtheria among

persons under age 35 years.

Denominator

Not applicable.

Population Targeted

U.S. resident population.

Questions Used To Obtain the National

CDC Diphtheria Worksheet.

Data

Expected Periodicity

Annual.

Comments

A case definition for confirmed cases of diphtheria is

available from CDC.1

This objective is a modification of Healthy People 2000 objective 20.1, which tracked the number of confirmed cases of diphtheria among persons aged 25 years and under. This measure tracks the number of confirmed cases of diphtheria among

persons under age 35 years.

See Part C for a description of NNDSS and Appendix A for focus area contact information.

* * *

14-1c. Haemophilus influenzae type b (children under age 5 years).

National Data Sources National Notifiable Disease Surveillance System (NNDSS), CDC, EPO; Active Bacterial Core

Surveillance (ABCs), Emerging Infection Programs,

CDC, NCID.

State Data Source

National Notifiable Disease Surveillance System

(NNDSS), CDC, EPO.

Healthy People 2000

Objective

Adapted from 20.1 (Immunization and Infectious

Diseases).

Measure Number.

Baseline 163 (1998).

Numerator Estimated number of all reported confirmed and

probable cases of Haemophilus influenzae invasive

disease (see Comments).

Denominator Not applicable.

Population Targeted U.S. resident population.

Questions Used To Obtain the National Data

CDC National Bacterial Meningitis and Bacteremia

Case Report, CDC 52.15N, Rev. 02/93.

Expected Periodicity Annual.

Comments This measure includes confirmed cases of H.

influenzae type b disease and cases in which the isolate of H. influenzae is of unknown serotype (based on the eight States with specific regions

under surveillance).

A case definition for confirmed and probable cases of Haemophilus influenzae type b is available from

CDC.1

This objective is a modification of Healthy People 2000 objective 20.1, which tracked the number of

cases of vaccine-preventable diseases.

Haemophilus influenzae type b was previously not

included as a vaccine-preventable disease.

See Part C for a description of NNDSS and Appendix A for focus area contact information.

14-1d. Hepatitis B (persons aged 2 to 18 years).

National Data Source National Notifiable Disease Surveillance System

(NNDSS), CDC, EPO.

State Data Source National Notifiable Disease Surveillance System

(NNDSS), CDC, EPO.

Healthy People 2000

Objective

Adapted from 20.1 (Immunization and Infectious

Diseases).

Measure Number.

Baseline 945 (1997). **Numerator** Number of laboratory-confirmed new symptomatic

hepatitis B cases among persons aged 2 to 18

years.

Denominator Not applicable.

Population Targeted U.S. resident population.

Questions Used To Obtain the National Data CDC Viral Hepatitis Case Record for Reporting of Patients With Symptomatic Acute Viral Hepatitis,

Form 53.1, Rev. 06/93.

Expected Periodicity Annual.

Comments A case definition for laboratory-confirmed new

symptomatic cases of hepatitis B is available from

CDC.1

This objective is a modification of Healthy People 2000 objective 20.1, which tracked the number of cases of vaccine-preventable diseases. Hepatitis B

previously was not included as a vaccine-

preventable disease.

See Part C for a description of NNDSS and Appendix A for focus area contact information.

***** * *

14-1e. Measles (persons of all ages).

National Data Source National Notifiable Disease Surveillance System

(NNDSS), CDC, EPO.

State Data Source National Notifiable Disease Surveillance System

(NNDSS), CDC, EPO.

Healthy People 2000

Objective

20.1 (Immunization and Infectious Diseases).

Measure Number.

Baseline 74 (1998).

Numerator Number of confirmed indigenous measles cases.

Denominator Not applicable.

Population Targeted U.S. resident population.

Questions Used To Obtain the National

Data

CDC Measles Surveillance Worksheet, Rev. 05/98.

Expected Periodicity Annual.

Comments A case definition for confirmed indigenous cases of

measles is available from CDC.1

See Part C for a description of NNDSS and Appendix A for focus area contact information.

***** * *

14-1f. Mumps (persons of all ages).

National Data Source National Notifiable Disease Surveillance System

(NNDSS), CDC, EPO.

State Data Source National Notifiable Disease Surveillance System

(NNDSS), CDC, EPO.

Healthy People 2000

Objective

20.1 (Immunization and Infectious Diseases).

Measure Number.

Baseline 666 (1998).

Numerator Number of confirmed and probably indigenous cases

of mumps.

Denominator Not applicable.

Population Targeted U.S. resident population.

Questions Used To Obtain the National

Data

CDC Mumps Surveillance Worksheet.

Expected Periodicity Annual.

Comments A case definition for confirmed and probable

indigenous cases of mumps is available from CDC.1

See Part C for a description of NNDSS and Appendix A for focus area contact information.

* * *

14-1g. Pertussis (children under age 7 years).

National Data Source National Notifiable Disease Surveillance System

(NNDSS), CDC, EPO.

State Data Source National Notifiable Disease Surveillance System

(NNDSS), CDC, EPO.

Healthy People 2000

Objective

Adapted from 20.1 (Immunization and Infectious

Diseases).

Measure Number.

Baseline 3,417 (1998).

Numerator Number of confirmed and probable cases of

pertussis (including cases identified in outbreak settings) among children under age 7 years.

Denominator Not applicable.

Population Targeted U.S. resident population.

Questions Used To Obtain the National

Data

CDC Pertussis Report, Form 71.14A, Rev. 06/86.

Expected Periodicity Annual.

Comments A case definition for confirmed and probable cases

of pertussis (including cases identified in outbreak

settings) is available from CDC.1

This objective is a modification of Healthy People 2000 objective 20.1, which tracked the number of confirmed and probable cases of pertussis among persons of all ages. This measure tracks the number of confirmed and probable cases among children

under age 7 years.

See Part C for a description of NNDSS and Appendix A for focus area contact information.

***** * *

14-1h. Polio (wild-type virus) (persons of all ages).

National Data Source National Notifiable Disease Surveillance System

(NNDSS), CDC, EPO.

State Data Source National Notifiable Disease Surveillance System

(NNDSS), CDC, EPO.

Healthy People 2000

Objective

20.1 (Immunization and Infectious Diseases).

Measure Number.

Baseline 0 (1998).

Numerator Number of indigenously acquired cases of polio

(wild-type virus, excludes imported or vaccine-

associated cases).

Denominator Not applicable.

Population Targeted U.S. resident population.

Questions Used To Obtain the National

Data

CDC Suspected Polio Case Worksheet.

Expected Periodicity Annual.

Comments A case definition for indigenously acquired cases of

polio (wild-type virus, excluding imported or vaccine-

associated cases) is available from CDC.1

See Part C for a description of NNDSS and Appendix A for focus area contact information.

* * *

14-1i. Rubella (persons of all ages).

National Data Source National Notifiable Disease Surveillance System

(NNDSS), CDC, EPO.

State Data Source National Notifiable Disease Surveillance System

(NNDSS), CDC, EPO.

Healthy People 2000

Objective

20.1 (Immunization and Infectious Diseases).

Measure Number.

Baseline 364 (1998).

Numerator Number of confirmed indigenous cases of rubella.

Denominator Not applicable.

Population Targeted U.S. resident population.

Questions Used To

Obtain the National

Data

CDC Rubella Surveillance Worksheet.

Expected Periodicity Annual.

Comments A case definition for confirmed indigenous cases of

rubella is available from CDC.1

See Part C for a description of NNDSS and Appendix A for focus area contact information.



14-1j. Tetanus (persons under age 35 years).

National Data Source National Notifiable Disease Surveillance System

(NNDSS), CDC, EPO.

State Data Source National Notifiable Disease Surveillance System

(NNDSS), CDC, EPO.

Healthy People 2000

Objective

Adapted from 20.1 (Immunization and Infectious

Diseases).

Measure Number.

Baseline 14 (1998).

Numerator Number of confirmed cases of tetanus among

persons under age 35 years.

Denominator Not applicable.

Population Targeted U.S. resident population.

Questions Used To Obtain the National

Data

CDC Tetanus Surveillance Case Report, Form

71.16, Rev. 06/86.

Expected Periodicity Annual.

Comments A case definition for confirmed cases of tetanus is

available from CDC.1

This objective is a modification of Healthy People 2000 objective 20.1, which tracked the number of confirmed cases of tetanus among persons aged 25 years and under. This measure tracks the number of confirmed cases of tetanus among persons under

age 35 years.

See Part C for a description of NNDSS and Appendix A for focus area contact information.

* * *

14-1k. Varicella (chicken pox) (persons under age 18 years).

National Data Source National Health Interview Survey (NHIS), CDC,

NCHS.

State Data Source Not identified.

Healthy People 2000

Objective

Adapted from 20.1 (Immunization and Infectious

Diseases).

Measure Number (4-year average).

Baseline 4 million (1990–94).

Numerator Number of persons (all ages) who are reported to

have had chicken pox (varicella) in the past year.

Denominator Not applicable.

Population Targeted U.S. civilian, noninstitutionalized population.

Questions Used To Obtain the National Data From the 1999 National Health Interview Survey

(see Comments):

➤ Has (<u>Sample child</u>) ever had chicken pox?

[If yes:]

 Has (<u>Sample child</u>) had chicken pox during the past 12 months?

Expected Periodicity Annual.

Comments A case of chicken pox is identified as any person

who reported missing either more than half of 1 day of school or work due to an illness or injury or staying in bed more than half of a day due to an illness or injury and who also reported that the condition that caused the day(s) of missed

school/work or day(s) of staying in bed was varicella or chicken pox. These data are adjusted from a 2-week incidence to a 12 month incidence by

week incidence to a 12-month incidence by multiplying the estimates by a factor of 26.

The baseline data for persons of all ages are a proxy measure for this objective and were calculated using the 1990-94 NHIS. NHIS was redesigned in 1997 to measure prevalence, and starting in 1999 NHIS included questions on incidence and asks if children aged under 18 years have ever had chicken pox, and if they had a case of the chicken pox/varicella in the past 12 months. This annual estimate will be the measure used to track this objective over the course of the decade.

The responses to questions on medical conditions are self-reports and are not validated. However, varicella is a distinct rash illness that is diagnosed easily by the lay public.

This objective is a modification of Healthy People 2000 objective 20.1, which tracked the number of cases of vaccine-preventable diseases. Varicella (chicken pox) previously was not included as a vaccine-preventable disease.

See Part C for a description of NHIS and Appendix A for focus area contact information.



14-2. Reduce chronic hepatitis B virus infections in infants and young children (perinatal infections).

National Data Perinatal Hepatitis B Prevention Program, CDC, Sources

NCID; National Vital Statistics System (NVSS), CDC,

NCHS.

State Data Sources State Perinatal Hepatitis B Prevention Programs;

State Vital Statistics Systems.

Healthy People 2000

Objective

20.3f (Immunization and Infectious Diseases).

Measure Number.

Baseline 1,682 (1995).

Numerator Number of estimated chronic hepatitis B virus (HBV)

> infections occurring among infants and children aged 2 years and younger of HBV-infected mothers (see

Comments).

Denominator Not applicable. **Population Targeted**

Questions Used To

CDC Viral Hepatitis Case Record for Reporting of Patients With Symptomatic Acute Viral Hepatitis,

Obtain the National Data

Form 53.1, Rev. 06/93.

U.S. resident population.

Expected Periodicity

Annual.

Comments

Using data collected by the Perinatal Hepatitis B Prevention Program and NVSS, this measure is based on the following estimation procedure: 1, 2, 3, 4, 5

- (1) Multiply the total births per year to HBsAgpositive women by the proportion of pregnant women screened for HBsAg and then by the proportion of infants born to identified HBsAgpositive women who receive the vaccine (this estimates the number of infants who were born to identified HBsAq-positive women and received at least one dose of vaccine).
- (2) Multiply the total number of infants who were born to HBsAg-positive women and received at least one dose of vaccine by the proportion of vaccinated infants who will remain susceptible, and add to the number of infants born to HBsAg-positive women who are not vaccinated (this estimates the number of infants born to HBsAg-positive women who remain susceptible).
- (3) Finally, multiply number of infants born to HBsAgpositive women remaining susceptible by the proportion of susceptible infants who will become infected and then by the proportion of infected infants who will remain chronically infected with HBV.

The estimated number of births to HBV-infected mothers is derived by applying race- and ethnicityspecific estimates of the prevalence of hepatitis B surface antigen to NVSS annual natality data.

See Part C for a description of NVSS (natality) and Appendix A for focus area contact information.



14-3. Reduce hepatitis B.

Adults

14-3a. 19 to 24 years.

National Data Source National Notifiable Disease Surveillance System

(NNDSS), CDC, EPO.

State Data Source National Notifiable Disease Surveillance System

(NNDSS), CDC, EPO.

Healthy People 2000

Objective

Adapted from 20.3 (Immunization and Infectious

Diseases).

Measure Rate per 100,000 population.

Baseline 24.0 (1997).

Numerator Number of estimated cases of hepatitis B among

persons aged 19 to 24 years.

Denominator Number of persons aged 19 to 24 years.

Population Targeted U.S. resident population.

Questions Used To Obtain the National

Data

CDC Viral Hepatitis Case Record for Reporting of Patients With Symptomatic Acute Viral Hepatitis,

Form 53.1, Rev. 06/93.

Expected Periodicity

Comments

Annual.

To determine the estimated number of hepatitis B cases by year of age, the number of hepatitis B cases reported to NNDSS by year of age is multiplied by age-specific ratios of infections to reported cases and divided by the age-specific proportions of infections which are symptomatic.^{6, 7}

To determine the estimated hepatitis B rate for a specific age group, the estimated number of cases for each year of age included in the group are added together and divided by the total population in that age group.

This measure is a modification of its comparable Healthy People 2000 objective 20.3, which tracked all ages. This measure tracks specific age groups.

See Part C for a description of NNDSS and Appendix A for focus area contact information.



14-3b. 25 to 39 years.

National Data Source National Notifiable Disease Surveillance System

(NNDSS), CDC, EPO.

State Data Source National Notifiable Disease Surveillance System

(NNDSS), CDC, EPO.

Healthy People 2000

Objective

Adapted from 20.3 (Immunization and Infectious

Diseases).

Measure Rate per 100,000 population.

Baseline 20.2 (1997).

Numerator Number of estimated cases of hepatitis B among

persons aged 25 to 39 years.

Denominator Number of persons aged 25 to 39 years.

Population Targeted U.S. resident population.

Questions Used To Obtain the National

Optain the Na

CDC Viral Hepatitis Case Record for Reporting of Patients With Symptomatic Acute Viral Hepatitis,

Form 53.1, Rev. 06/93.

Expected Periodicity Annual.

Comments See Comments provided with objective 14-3 for

more information.

***** * *

14-3c. 40 years and older.

National Data Source National Notifiable Disease Surveillance System

(NNDSS), CDC, EPO.

State Data Source National Notifiable Disease Surveillance System

(NNDSS), CDC, EPO.

Healthy People 2000

Objective

Adapted from 20.3 (Immunization and Infectious

Diseases).

Measure Rate per 100,000 population.

Baseline 15.0 (1997).

Numerator Number of estimated cases of hepatitis B among

persons aged 40 years and older.

Denominator Number of persons aged 40 years and older.

Population Targeted U.S. resident population.

Questions Used To Obtain the National

Data

CDC Viral Hepatitis Case Record for Reporting of Patients With Symptomatic Acute Viral Hepatitis,

Form 53.1, Rev. 06/93.

Expected Periodicity

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Comments See Comments provided with objective 14-3 for

more information.

Annual.

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High-risk groups

14-3d. Injection drug users.

National Data

Sources

National Notifiable Disease Surveillance System (NNDSS), CDC, EPO; Sentinel Counties Study of

Viral Hepatitis, CDC, NCID.

State Data Sources National Notifiable Disease Surveillance System

(NNDSS), CDC, EPO; Viral Hepatitis Surveillance

Program.

Healthy People 2000

Objective

20.3a (Immunization and Infectious Diseases).

Measure Number.

Baseline 7,232 (1997).

Numerator Number of estimated hepatitis B cases multiplied by

the proportion of hepatitis B cases reported to the Sentinel Counties Study of Viral Hepatitis that were

attributable to injection drug use.

Denominator Not applicable.

Population Targeted U.S. resident population.

Questions Used To Obtain the National

Data

CDC Viral Hepatitis Case Record for Reporting of Patients With Symptomatic Acute Viral Hepatitis,

Form 53.1, Rev. 06/93.

Expected Periodicity Annual.

Comments To determine the estimated number of hepatitis B

cases occurring in injection drug users nationwide, the estimated total number of hepatitis B cases in all

age groups (for complete description of the

calculation method, see objective 14-3a Comments) is multiplied by the proportion of cases reported to Sentinel Counties Study of Viral Hepatitis that

occurred in injection drug users.

To obtain State-specific measures for this objective, local Viral Hepatitis Surveillance Program data are used to determine the estimated number of cases occurring in the State and the proportion attributable to injection drug use.

See Part C for a description of NNDSS and Appendix A for focus area contact information.

* * *

14-3e. Heterosexually active persons.

National Data
Sources

National Notifiable Disease Surveillance System (NNDSS), CDC, EPO; Sentinel Counties Study of

Viral Hepatitis, CDC, NCID.

State Data Sources National Notifiable Disease Surveillance System

(NNDSS), CDC, EPO; Viral Hepatitis Surveillance

Program.

Healthy People 2000

Objective

20.3b (Immunization and Infectious Diseases) (also

part of 19.7).

Measure Number.

Baseline 15,225 (1997).

Numerator Number of estimated hepatitis B cases multiplied by

the proportion of new symptomatic hepatitis B cases reported to the Sentinel Counties Study of Viral Hepatitis that occurred among heterosexually active

persons.

Denominator Not applicable.

Population Targeted U.S. resident population.

Questions Used To Obtain the National

Data

CDC Viral Hepatitis Case Record for Reporting of Patients With Symptomatic Acute Viral Hepatitis,

Form 53.1, Rev. 06/93.

Comments

To determine the estimated number of hepatitis B cases occurring in heterosexually active persons nationwide, the estimated total number of hepatitis B cases in all age groups (for complete description of the calculation method, see objective 14-3a Comments) is multiplied by the proportion of cases reported to Sentinel Counties Study of Viral Hepatitis that occurred in heterosexually active persons.

To obtain State-specific measures for this objective, local Viral Hepatitis Surveillance Program data are used to determine the estimated number of cases occurring in the State and the proportion attributable to heterosexual activity.

See Part C for a description of NNDSS and Appendix A for focus area contact information.

***** * *

14-3f. Men who have sex with men.

National Data Sources National Notifiable Disease Surveillance System (NNDSS), CDC, EPO; Sentinel Counties Study of

Viral Hepatitis, CDC, NCID.

State Data Sources

National Notifiable Disease Surveillance System (NNDSS), CDC, EPO; Viral Hepatitis Surveillance

Program.

Healthy People 2000

Objective

20.3c (Immunization and Infectious Diseases) (also

part of 19.7).

Measure Number.

Baseline 7,232 (1997).

Numerator Number of estimated hepatitis B cases multiplied by

the proportion of hepatitis B cases reported to the Sentinel Counties Study of Viral Hepatitis that were

attributable to male homosexual behavior.

Denominator Not applicable.

Population Targeted U.S. resident population.

Questions Used To Obtain the National

CDC Viral Hepatitis Case Record for Reporting of Patients With Symptomatic Acute Viral Hepatitis,

Data

Form 53.1, Rev. 06/93.

Comments

To determine the estimated number of hepatitis B cases occurring in homosexual males nationwide, the estimated total number of hepatitis B cases in all age groups (for complete description of the calculation method, see objective 14-3a Comments) is multiplied by the proportion of cases reported to Sentinel Counties Study of Viral Hepatitis that occurred in homosexual males.

To obtain State-specific measures for this objective, local Viral Hepatitis Surveillance Program data are used to determine the estimated number of cases occurring in the State and the proportion attributable to male homosexual activity.

See Part C for a description of NNDSS and Appendix A for focus area contact information.

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14-3g. Occupationally exposed workers.

National Data Sources National Notifiable Disease Surveillance System (NNDSS), CDC, EPO; Sentinel Counties Study of

Viral Hepatitis, CDC, NCID.

State Data Sources

National Notifiable Disease Surveillance System (NNDSS), CDC, EPO; Viral Hepatitis Surveillance

Program.

Healthy People 2000

Objective

20.3e (Immunization and Infectious Diseases) (also

10.5).

Measure Number.

Baseline 249 (1997).

Numerator Number of estimated hepatitis B cases multiplied by

the proportion of hepatitis B cases reported to the Sentinel Counties Study of Viral Hepatitis that were

attributed to occupational exposure.

Denominator Not applicable.

Population Targeted U.S. resident population.

Questions Used To Obtain the National CDC Viral Hepatitis Case Record for Reporting of Patients With Symptomatic Acute Viral Hepatitis,

Data

Form 53.1, Rev. 06/93.

Comments To determine the estimated number of hepatitis B

cases occurring in occupationally exposed workers nationwide, the estimated total number of hepatitis B cases in all age groups (for a complete description of

the calculation method, see objective 14-3a

Comments) is multiplied by the proportion of cases reported to Sentinel Counties Study of Viral Hepatitis that occurred in occupationally exposed workers.

To obtain State-specific measures for this objective, local Viral Hepatitis Surveillance Program data are used to determine the estimated number of cases occurring in the State and the proportion attributable to occupational exposure.

See Part C for a description of NNDSS and Appendix A for focus area contact information.

***** * *

14-4. Reduce bacterial meningitis in young children.

National Data Source Active Bacterial Core Surveillance (ABCs), Emerging

Infection Programs, CDC, NCID.

State Data Source Not identified.

Healthy People 2000

Objective

Adapted from 20.7 (Immunization and Infectious

Diseases).

Measure Rate per 100,000 population

Baseline 13.0 (1998) (selected regions in eight States—see

Comments).

Numerator Number of laboratory culture confirmed cases with

bacterial meningitis in children aged 1 to 23 months.

Denominator Number of children aged 1 to 23 months.

Population Targeted Resident population in the eight States with specific

regions under surveillance (see Comments).

Questions Used To Obtain the National

Data

CDC Active Surveillance Bacterial Meningitis and Bacteremia Case Report, Form 52.15A, Rev. 12/97.

Comments

A laboratory culture-confirmed case of bacterial meningitis is defined as either the isolation of *Haemophilus influenzae*, Neisseria meningitidis, group B Streptococcus, groups A Streptococcus, or Streptococcus pneumoniae from cerebral spinal fluid or a positive culture of *Haemophilus influenzae*, Neisseria meningitidis, group B Streptococcus, groups A Streptococcus, or Streptococcus pneumoniae from a different normally sterile site (blood, pleural fluid, etc.) and a clinical diagnosis of meningitis.¹

ABCs is an active and laboratory-based case surveillance system. Data are collected from acute care hospitals and reference laboratories for laboratory-confirmed cases as well as from case report forms.

Data are based on surveillance of selected regions in eight States: California, Connecticut, Georgia, Maryland, Minnesota, New York, Oregon, and Tennessee.

This measure is a modification of Healthy People 2000 objective 20.7, which tracked bacterial meningitis for all ages using the Bacterial Meningitis Surveillance System, CDC, NCID. This measure tracks bacterial meningitis for children aged 1 to 23 months using ABCs.

See Appendix A for focus area contact information.



14-5. Reduce invasive pneumococcal infections.

New invasive pneumococcal infections

14-5a. Children under age 5 years.

National Data Source Active Bacterial Core Surveillance (ABCs), Emerging

Infection Programs, CDC, NCID.

State Data Source Not identified.

Healthy People 2000 Adapted from 20.10 (Immunization and Infectious

Diseases).

Measure Rate per 100,000 population

Objective

Baseline 76 (1997) (selected regions in eight States—see

Comments).

Numerator Number of children under age 5 years with a

laboratory-confirmed invasive pneumococcal infection (see Comments) in the past 12 months.

Denominator Number of children under age 5 years.

Population Targeted Resident population in the eight States with specific

regions under surveillance (see Comments).

Questions Used To Obtain the National Data CDC Active Surveillance Bacterial Meningitis and Bacteremia Case Report, Form 52.15A, Rev. 12/97.

Expected Periodicity Annual.

Comments An invasive pneumococcal infection is defined as a

laboratory-confirmed isolation of Streptococcus pneumoniae from a normally sterile site (blood,

cerebral spinal fluid, etc.).1

ABCs is an active and laboratory-based case surveillance system. Data are collected from acute care hospitals and reference laboratories for laboratory-confirmed cases as well as from case

report forms.

Data are based on surveillance of selected regions in eight States: California, Connecticut, Georgia, Maryland, Minnesota, New York, Oregon, and Tennessee. Data for Alaska Natives are measured by the Arctic Investigations Program, CDC, NCID.

This measure is a modification of Healthy People 2000 objective 20.10, which tracked restricted activity days among children under age 5 years using the National Health Interview Survey (NHIS), CDC, NCHS. This objective tracks the incidence of pneumococcal infections among children under age 5 years using ABCs.

See Appendix A for focus area contact information.

* * *

14-5b. Adults aged 65 years and older.

National Data Source Active Bacterial Core Surveillance (ABCs), Emerging

Infection Programs, CDC, NCID.

Not identified. State Data Source

Healthy People 2000 Adapted from 20.10 (Immunization and Infectious

Objective Diseases).

Measure Rate per 100,000 population

Baseline 62 (1997) (selected regions in eight States—see

Comments).

Numerator Number of adults aged 65 years and older with a

> laboratory-confirmed invasive pneumococcal infection (see Comments) in the past 12 months.

Denominator Number of adults aged 65 years and older.

Population Targeted Resident population in the eight States with specific

regions under surveillance (see Comments).

Questions Used To Obtain the National Data

CDC Active Surveillance Bacterial Meningitis and Bacteremia Case Report, Form 52.15A, Rev. 12/97.

Expected Periodicity Annual.

Comments An invasive pneumococcal infection is defined as a

> laboratory-confirmed isolation of Streptococcus pneumoniae from a normally sterile site (blood,

cerebral spinal fluid, etc.).1

ABCs is an active and laboratory-based case surveillance system. Data are collected from acute care hospitals and reference laboratories for laboratory-confirmed cases as well as from case report forms.

Data are based on surveillance of selected regions in eight States: California, Connecticut, Georgia, Maryland, Minnesota, New York, Oregon, and Tennessee. Data for Alaska Natives are measured by the Arctic Investigations Program, CDC, NCID.

This measure is a modification of Healthy People 2000 objective 20.10, which tracked restricted activity days among adults aged 65 years and older years using the National Health Interview Survey (NHIS), CDC, NCHS. This objective tracks the incidence of pneumococcal infections among adults

aged 65 years and older using ABCs.

See Appendix A for focus area contact information.

Invasive penicillin-resistant pneumococcal infections

14-5c. Children under age 5 years.

National Data Source Active Bacterial Core Surveillance (ABCs), Emerging

Infection Programs, CDC, NCID.

State Data Source Not identified.

Healthy People 2000

Objective

Adapted from 20.10 (Immunization and Infectious

Diseases).

Measure Rate per 100,000 population.

Baseline 16 (1997) (selected regions in eight States—see

Comments).

Numerator Number of children under age 5 years with a

laboratory-confirmed invasive penicillin-resistant pneumococcal infection (see Comments) in the past

12 months.

Denominator Number of children under age 5 years.

Population Targeted Resident population in the eight States with specific

regions under surveillance (see Comments).

Questions Used To Obtain the National

Data

CDC Active Surveillance Bacterial Meningitis and Bacteremia Case Report, Form 52.15A, Rev. 12/97.

Expected Periodicity Annual.

Comments A laboratory-confirmed invasive penicillin-resistant

pneumococcal infection is defined as the isolation of Streptococcus pneumoniae from a normally sterile site (blood, cerebral spinal fluid, etc.) with a penicillin minimum inhibitory concentration of greater than 2

μg/ml.

ABCs is an active and laboratory-based case surveillance system. Data are collected from acute care hospitals and reference laboratories for laboratory-confirmed cases as well as from case

report forms.

Data are based on surveillance of selected regions in eight States: California, Connecticut, Georgia, Maryland, Minnesota, New York, Oregon, and Tennessee. Data for Alaska Natives are measured by the Arctic Investigations Program, CDC, NCID.

This measure is a modification of Healthy People 2000 objective 20.10, which tracked restricted activity days among children under age 5 years using the National Health Interview Survey (NHIS), CDC, NCHS. This objective tracks the incidence of penicillin-resistant pneumococcal infections among children under age 5 years using ABCs.

See Appendix A for focus area contact information.

* * *

14-5d. Adults aged 65 years and older.

Infection Programs, CDC, NCID.

State Data Source Not identified.

Healthy People 2000

Objective

Adapted from 20.10 (Immunization and Infectious

Diseases).

Measure Rate per 100,000 population.

Baseline 9 (1997) (selected regions of eight States—see

Comments).

Numerator Number of adults aged 65 years and older with a

laboratory-confirmed invasive penicillin-resistant pneumococcal infection (see Comments) in the past

12 months.

Denominator Number of adults aged 65 years and older.

Population Targeted Resident population in the eight States with specific

regions under surveillance (see Comments).

Questions Used To Obtain the National

Data

CDC Active Surveillance Bacterial Meningitis and Bacteremia Case Report, Form 52.15A, Rev. 12/97.

Expected Periodicity Annual.

Comments A laboratory-confirmed invasive penicillin-resistant

pneumococcal infection is defined as the isolation of Streptococcus pneumoniae from a normally sterile site (blood, cerebral spinal fluid, etc.) with a penicillin minimum inhibitory concentration of greater than 2

μg/ml.

ABCs is an active and laboratory-based case surveillance system. Data are collected from acute care hospitals and reference laboratories for laboratory-confirmed cases as well as from case report forms.

Data are based on surveillance of selected regions in eight States: California, Connecticut, Georgia, Maryland, Minnesota, New York, Oregon, and Tennessee. Data for Alaska Natives are measured by the Arctic Investigations Program, CDC, NCID.

This measure is a modification of Healthy People 2000 objective 20.10, which tracked restricted activity days among adults aged 65 years and older using the National Health Interview Survey (NHIS), CDC, NCHS. This objective tracks the incidence of penicillin-resistant pneumococcal infections among adults aged 65 years and older using ABCs.

See Appendix A for focus area contact information.



Diseases Preventable Through Targeted Vaccination

14-6. Reduce hepatitis A.

National Data Source National Notifiable Disease Surveillance System

(NNDSS), CDC, EPO.

State Data Source National Notifiable Disease Surveillance System

(NNDSS), CDC, EPO.

Healthy People 2000

Objective

20.3 (Immunization and Infectious Diseases).

Measure Rate per 100,000 population.

Baseline 11.3 (1997).

Numerator Number of new symptomatic hepatitis A cases

reported in the past 12 months.

Denominator Number of persons.

Population Targeted U.S. resident population.

Questions Used To

Obtain the National

Data

CDC Viral Hepatitis Case Record for Reporting of Patients With Symptomatic Acute Viral Hepatitis,

Form 53.1, Rev. 06/93.

Expected Periodicity Annual.

Comments A case definition for new symptomatic cases of

hepatitis A is available from CDC.1

See Part C for a description of NNDSS and Appendix A for focus area contact information.

* * *

14-7. Reduce meningococcal disease.

National Data Active Bacterial Core Surveillance (ABCs), Emerging

Infections Program Network, CDC, NCID; National Notifiable Disease Surveillance System (NNDSS),

CDC, EPO.

State Data Sources Active Bacterial Core Surveillance (ABCs), Emerging

Infections Program Network, CDC, NCID; National Notifiable Disease Surveillance System (NNDSS),

CDC, EPO.

Healthy People 2000

Objective

Sources

Adapted from 20.7 (Immunization and Infectious

Diseases).

Measure Rate per 100,000 population.

Baseline 1.3 (1997) (selected regions in eight States—see

Comments).

Numerator Number of new laboratory-confirmed meningococcal

disease cases reported in past 12 months.

Denominator Number of persons.

Population Targeted Resident population (selected regions in eight

States—see Comments).

Questions Used To Obtain the National

Data

CDC National Bacterial Meningitis and Bacteremia

Case Report, Form 52.15N, Rev. 02/93.

Expected Periodicity Annual.

Comments A case definition for laboratory-confirmed cases of

meningococcal disease is available from CDC.1

ABCs is an active and laboratory-based case surveillance system. Data are collected from acute care hospitals and reference laboratories for

laboratory-confirmed cases as well as from case

report forms.

Data are based on surveillance of selected regions in eight States: California, Connecticut, Georgia, Maryland, Minnesota, New York, Oregon, and Tennessee.

This measure is a modification of Healthy People 2000 objective 20.10, which tracked bacterial meningitis cases using the Bacterial Meningitis Surveillance System, CDC, NCID. This measure tracks meningococcal disease (meningitis and/or meningococcemia) using both NNDSS and ABCs.

See Part C for a description of NNDSS and Appendix A for focus area contact information.

***** * *

14-8. Reduce Lyme disease.

National Data Source National Notifiable Disease Surveillance System

(NNDSS), CDC, EPO.

State Data Source National Notifiable Disease Surveillance System

(NNDSS), CDC, EPO.

Healthy People 2000

Objective

Not applicable.

Measure Rate per 100,000 population (5-year average).

Baseline 17.4 (1992–96) (selected States in endemic

regions—see Comments).

Numerator Number of reported cases of Lyme disease.

Denominator Number of persons.

Population Targeted Resident population (selected States in endemic

regions—see Comments).

Questions Used To Obtain the National

Data

Not applicable.

Expected Periodicity Annual.

Comments A case definition is available from CDC.¹

Baseline endemic regions include Connecticut, Delaware, Maryland, Massachusetts, Minnesota, New Jersey, New York, Pennsylvania, and Rhode

Island.

Data were unavailable by gender for Pennsylvania in 1992–93. Therefore, Pennsylvania was excluded from baseline estimates by gender.

See Part C for a description of NNDSS and Appendix A for focus area contact information.



Infectious Diseases and Emerging Antimicrobial Resistance

14-9. Reduce hepatitis C.

National Data Source Sentinel Counties Study of Viral Hepatitis, CDC,

NCID.

State Data Source Viral Hepatitis Surveillance Program, CDC, NCID.

Healthy People 2000

Objective

20.3 (Immunization and Infectious Diseases).

Measure Rate per 100,000 population.

Baseline 2.4 (1996).

Numerator Number of new symptomatic hepatitis C cases.

Denominator Number of persons.

Population Targeted U.S. resident population.

Questions Used To Obtain the National

Data

CDC Viral Hepatitis Case Record for Reporting of Patients With Symptomatic Acute Viral Hepatitis,

Form 53.1. Rev. 06/93.

Expected Periodicity Annual.

Comments A case definition for new symptomatic cases of

hepatitis C is available from CDC.1

To estimate the incidence of new symptomatic hepatitis C, the incidence rate of reported non-A, non-B hepatitis per 100,000 population in the sentinel counties is multiplied by an underreporting adjustment factor of 2.4 and then by the a factor of 0.9, the proportion of non-A, non-B hepatitis that is attributable to hepatitis C virus (HCV) infection, weighted to the U.S. population. The estimates from sentinel counties are then weighted to the U.S.

resident population.

Because reporting of new symptomatic hepatitis C to national surveillance systems has been unreliable to date, the national incidence of hepatitis C is based on cases reported through the Sentinel Counties Study of Viral Hepatitis.

See Appendix A for focus area contact information.

***** * *

14-10. (Developmental) Increase the proportion of persons with chronic hepatitis C infection identified by State and local health departments.

Comments An operational definition could not be specified at

the time of publication.

A proposed national data source is the National Health and Nutrition Examination Survey, CDC, NCHS. A proposed State data source are the State

and local health departments.

Establishment of registries for HCV-infected persons will be needed to determine the cumulative number of HCV-infected persons reported to State and local

health departments.

See Appendix A for focus area contact information.

***** * *

14-11. Reduce tuberculosis.

National Data Source National TB Surveillance System, CDC, NCHSTP.

State Data Source State TB Surveillance Systems.

Healthy People 2000

Objective

20.4 (Immunization and Infectious Diseases).

Measure Rate per 100,000 population.

Baseline 6.8 (1998).

Numerator Number of confirmed new cases of tuberculosis

reported to CDC by local health departments in all

50 States and the District of Columbia.

Denominator Number of persons.

Population Targeted U.S. resident population.

Questions Used To Obtain the National

Data

CDC Report of Verified Case of Tuberculosis, Form 72.9A, Rev. 05/93, and Forms 72.9B-C, Rev. 12/92.

Expected Periodicity Annual.

Comments A confirmed case definition for tuberculosis is

available from CDC.1

Data for this measure are also included in Reported

Tuberculosis in the United States, 1998.8

See Appendix A for focus area contact information.

***** * *

14-12. Increase the proportion of all tuberculosis patients who complete curative therapy within 12 months.

National Data Source National TB Surveillance System, CDC, NCHSTP.

State Data Source State TB Surveillance Systems.

Healthy People 2000

Objective

Not applicable.

Measure Percent.

Baseline 74 (1996).

Numerator Number of persons with confirmed new cases of

tuberculosis who were alive at diagnosis, with an initial drug regimen of one or more drugs prescribed, who did not die during therapy, and who completed curative therapy within 12 months of diagnosis.

Denominator Number of persons with confirmed new cases of

tuberculosis who were alive at diagnosis, with an initial drug regimen of one or more drugs prescribed,

and who did not die during therapy.

Population Targeted U.S. resident population.

Questions Used To Obtain the National

Data

CDC Report of Verified Case of Tuberculosis, Form 72.9A, Rev. 05/93, and Forms 72.9B-C, Rev. 12/92.

Expected Periodicity Annual.

Comments A confirmed case definition for tuberculosis is

available from CDC.1

Data for this measure are also included in Reported Tuberculosis in the United States, 1998.8

See Appendix A for focus area contact information.



14-13. Increase the proportion of contacts and other high-risk persons with latent tuberculosis infection who complete a course of treatment.

National Data Source Aggregate Reports for TB Reports Evaluation, CDC,

NCHSTP.

State Data Source State TB Surveillance Systems.

Healthy People 2000

Objective

Adapted from 20.18 (Immunization and Infectious

Diseases).

Measure Percent.

Baseline 62 (1997).

Numerator Number of contacts, tuberculin converters, and

others placed on treatment for latent TB infection

who complete the recommended therapy.

Denominator Number of contacts, tuberculin converters, and other

persons placed on treatment for latent TB infection.

Population Targeted U.S. resident population.

Questions Used To Obtain the National

Data

CDC Report of Verified Case of Tuberculosis, Form 72.9A, Rev. 05/93, and Forms 72.9B-C, Rev. 12/92; CDC Tuberculosis Program Management Report, Completion of Preventive Therapy, Form 72.21

(formerly 5.63), Rev. 01/97.

Expected Periodicity Annual.

Comments A confirmed case definition for tuberculosis is

available from CDC.1

High-risk persons are defined by the CDC Tuberculosis Program Management Report form. "Contacts" are all persons who have recently shared the same air space with a person who has pulmonary tuberculosis. "Recent tuberculin converters" are those who have had a tuberculin skin test conversion within the past 2 years exclusive of those persons eligible for the contact category. "Others placed on treatment for latent TB infection" include all other persons started on therapy for latent tuberculosis infection during the time period.

See Appendix A for focus area contact information.

* * *

14-14. Reduce the average time for a laboratory to confirm and report tuberculosis cases.

National Data Source Survey of State Public Health Laboratories, CDC,

NCHSTP.

State Data Source Survey of State Public Health Laboratories, CDC,

NCHSTP.

Healthy People 2000

Objective

Not applicable.

Measure Mean number of days per State health laboratory.

Baseline 21 (1996).

Numerator Sum of the mean number of days (from receipt of an

initial diagnostic specimen from a suspected case to confirming it as coming from a case of tuberculosis among the most rapidly confirmed 75 percent of laboratory-confirmed tuberculosis cases), as

reported by all participating State health laboratories.

Denominator Sum of the number of all the cases of tuberculosis

confirmed by each State health laboratory, as reported by all participating State health laboratories,

multiplied by a factor of 0.75.

Questions Used To Obtain the National

Data

From the 1996 National Survey of State Public

Health Laboratories:

[NUMERATOR:]

For the most rapidly confirmed 75% of the laboratoryconfirmed tuberculosis cases, what was the mean number of days or hours from receipt of an initial diagnostic specimen from a suspected case to confirming it as coming from a case of tuberculosis

____ mean number of days (hours) to confirm 75% of tuberculosis cases

[DENOMINATOR:]

How many cases of tuberculosis were confirmed by your laboratory?

____ number of laboratory-confirmed tuberculosis cases

Expected Periodicity

Periodic.

Comments

The mean number of days was calculated by each State health laboratory by summing the mean number of days it takes to confirm 75 percent of the most rapidly confirmed cases out of all its laboratory-confirmed cases of tuberculosis and was then divided by the total number of confirmed cases that constituted the 75 percent most rapidly confirmed cases. This mean was then summed with all participating State health laboratories and divided by the number of laboratories.^{9, 10}

See Appendix A for focus area contact information.



14-15. (Developmental) Increase the proportion of international travelers who receive recommended prevention services when traveling in areas of risk for select infectious diseases: hepatitis A, malaria, and typhoid.

Comments

An operational definition could not be specified at the time of publication.

This objective is a modification of Healthy People 2000 objective 20.6, which tracked the number of cases of typhoid fever, hepatitis A, and malaria using, respectively, the Typhoid Surveillance System, CDC NCID; Sentinel Counties of Acute Viral Hepatitis, CDC, NCID and NNDSS, CDC, EPO; and Malaria Surveillance System, CDC, NCID.

The proposed measure will track the proportion of travelers receiving the recommended prevention services. A proposed data source is the *Abstract of International Travel to and from the United States*, Department of Commerce. The number of international travelers from the United States has increased an average of 3 percent a year for the past decade. Recognition of such increases will be factored into the analysis for denominator data.

Travelers to risk areas will be defined as those travelers to moderate and high prevalence areas of hepatitis A as identified in the most recent edition of CDC's Health Information for International Travel. Travelers who received either hepatitis A vaccine or immune globulin according to current Advisory Committee on Immunization Practices (ACIP) recommendations will be considered protected.

An appropriate prescription of antimalarial prophylaxis medications constitutes recommended preventive services for this disease. Risk areas will be identified by referencing the malaria section in the most recent edition of Health Information for International Travel.

Travelers to risk countries will be considered those persons who visit countries with intermediate to high endemicity for typhoid fever infection. Three vaccines currently are available in the United States for prevention of typhoid fever, and all these are considered adequate protection. If new vaccines are approved and identified by CDC as efficacious, they also could be included.

See Appendix A for focus area contact information.



14-16. Reduce invasive early onset group B streptococcal disease.

National Data Sources

Active Bacterial Core Surveillance (ABCs), Emerging Infections Program Network, CDC, NCID; National

Vital Statistics System, CDC, NCHS.

State Data Source

Not identified.

Healthy People 2000

Objective

Not applicable.

Measure Rate per 1,000 live births.

Baseline 1.0 (1996) (selected regions in eight States).

Numerator Number of newborns aged 0 to 6 days with a newly

reported laboratory-confirmed case of early-onset group B streptococcal disease in the past 12

months.

Denominator Number of live births.

Population Targeted Resident population (selected regions in eight

States) (see Comments).

Questions Used To Obtain the National

Data

CDC Active Surveillance Bacterial Meningitis and Bacteremia Case Report, Form 52.15A, Rev. 12/97.

Expected Periodicity Annual.

Comments A laboratory-confirmed case of group B

Streptococcus is defined as either the isolation of group B Streptococcus from cerebrospinal fluid or a positive culture of group B Streptococcus from a different normally sterile site (blood, pleural fluid, etc.) in a newborn aged 0 to 6 days in the

surveillance area.

ABCs is an active and laboratory-based case surveillance system. Data are collected from acute care hospitals and reference laboratories for laboratory-confirmed cases as well as from case report forms.

Data are based on surveillance of selected regions in eight States: California, Connecticut, Georgia, Maryland, Minnesota, New York, Oregon, and Tennessee.

More information on laboratory-based surveillance for meningococcal disease (including group B streptococcal disease) is provided by CDC.¹¹

See Appendix A for focus area contact information.

*** * ***

14-17. Reduce hospitalizations caused by peptic ulcer disease in the United States.

National Data Source National Hospital Discharge Survey (NHDS), CDC,

NCHS.

State Data Source State hospital discharge data systems.

Healthy People 2000

Objective

Adapted from 17.21 (Diabetes and Chronic Disabling

Conditions).

Measure Rate per 100,000 population.

Baseline 71 (1998).

Numerator Number of hospitalizations with uncomplicated

ulcers or ulcers complicated by bleeding or perforation as the principal diagnosis (ICD-9-CM

codes 531-534).

Denominator Number of persons.

Population Targeted U.S. civilian population.

Questions Used To Obtain the National

Data

Not applicable.

Expected Periodicity Annual.

Comments Principal diagnosis is the diagnosis chiefly

responsible for admission of the person to the

hospital.

This measure is a modification from its comparable Healthy People 2000 objective 17.21, which tracked

the proportion of persons in the U.S. civilian,

noninstitutionalized population who reported having an ulcer in the past 12 months, using self-reported conditions, from the National Health Interview Survey (NHIS), CDC, NCHS. This measure tracks the number of hospitalizations with uncomplicated

ulcers or ulcers complicated by bleeding or

perforation as the first-listed diagnosis (ICD-9-CM codes 531-534) in the U.S. civilian population using

NHDS.

See Appendix A for focus area contact information.



14-18. Reduce the number of courses of antibiotics for ear infections for young children.

National Data Sources	CDC, NCHS; National Hospital Ambulatory Medical Care Survey (NHAMCS), CDC, NCHS.
State Data Source	Not identified.
Healthy People 2000 Objective	Adapted from 20.9 (Immunization and Infectious Diseases).
Measure	Rate per 100 children (2-year average).
Baseline	108 (1996–97).
Numerator	Number of antibiotic courses ordered, supplied, administered, or continued at a specific visit for children under age 5 years diagnosed with an ear infection (ICD-9-CM codes 381.0, 381.4, 382.0, 382.4, or 382.9).
Denominator	Number of children under age 5 years.
Population Targeted	U.S. civilian, noninstitutionalized population.
Questions Used To Obtain the National Data	From the 1996–97 National Ambulatory Medical Care Survey/National Hospital Ambulatory Medical Care Survey:
	Physician's diagnosis for this visit. As specifically as possible, list diagnoses related to this visit including chronic conditions (e.g. depression, obesity, asthma, etc.).
	1. Primary diagnosis: 2. Other: 3. Other:
	Medications/injections. List names of up to 6 medications that were ordered, supplied, administered, or continued during this visit. Include L and OTC medications, immunizations, allergy shots, and anesthetics.
	□ None
	Check the box next to drug name if it is from the patient's insurance formulary list.
	Check here if NO drugs are from a formulary list
	□ 1. □ 2. □ 3. □ 4. □ 5. □ 6.

Expected Periodicity Annual.

Comments The number of courses of antibiotics for ear

infections among young children (and for the sole diagnosis of the common cold among all ages) are the sum of cases reported by NAMCS and NHAMCS

that are listed as any diagnosis (including the

primary diagnosis).

NAMCS and NHAMCS are being redesigned in 2000, and modifications to survey questions on medications may affect the trend of this measure.

This objective differs from Healthy People 2000 objective 20.9, which tracked restricted activity days due to ear infections among children aged 4 years and under using the National Health Interview

Survey (NHIS), CDC, NCHS.

See Part C for descriptions of NAMCS and NHAMCS and Appendix A for focus area contact

information.

***** * *

14-19. Reduce the number of courses of antibiotics prescribed for the sole diagnosis of the common cold.

National Data National Ambulatory Medical Care Survey (NAMCS), Sources

CDC, NCHS; National Hospital Ambulatory Medical

Care Survey (NHAMCS), CDC, NCHS.

State Data Source Not identified.

Healthy People 2000

Objective

Not applicable.

Measure Rate per 100,000 population (2-year average).

Baseline 2,535 (1996–97).

Numerator Number of antibiotic courses ordered, supplied,

> administered, or continued at a specific visit for persons diagnosed with the common cold (ICD-9-

CM codes 460.0, 465, or 472.0).

Denominator Number of persons.

Population Targeted U.S. civilian, noninstitutionalized population. Questions Used To Obtain the National

See Questions Used To Obtain the National Data

provided with objective 14-18.

Expected Periodicity

Annual.

Comments

Data

See Comments provided with objective 14-18 for

more information.

***** * *

14-20. Reduce hospital-acquired infections in intensive care unit patients.

Intensive care unit patients

14-20a. Catheter-associated urinary tract infection.

National Data Source National Nosocomial Infections Surveillance (NNIS)

System, CDC, NCID.

State Data Source Not identified.

Healthy People 2000

Objective

Adapted from 20.5 (Immunization and Infectious

Diseases).

Measure Rate per 1,000 days' use.

Baseline 5.9 (1998).

Numerator Number of hospital-acquired indwelling urinary

catheter-associated urinary tract infections among

intensive care unit patients.

Denominator Number of indwelling urinary catheter-days among

intensive care unit patients.

Population Targeted Acute care general hospital patient population.

Questions Used To Obtain the National

Data

Numerator: CDC National Nosocomial Infections Surveillance System Infection Worksheet, Form

57.58D, Rev. 01/98.

Denominator: CDC National Nosocomial Infections Surveillance System Adult and Pediatric Intensive Care Unit (ICU) Monthly Report Form, Form 57.58B,

Rev. 01/98.

Expected Periodicity Annual.

Comments The 1998 point estimate represents an aggregate of

data from all types of ICUs during January 1992

through March 1999.

Data may not be representative of all U.S. hospitals. For each year of data collection, not all participating hospitals are represented.

Detailed surveillance protocols used in NNIS System, including all data field definitions, can be found in the *NNIS Manual*, May 1999 (available by request to NNIS hospitals, State health departments, and international ministries of health).¹² Definitions of infections and key data fields and a description of the protocols are available.^{13, 14}

This objective is a modification of Healthy People 2000 objective 20.5, which tracked the urinary tract infection rates per 1,000 device days among patients by specific type of intensive care unit categories (surgical ICUs, medical ICUs, and pediatric ICUs). This measure tracks catheter-associated urinary tract infection rates per 1,000 days' use among patients in all ICUs.

See Appendix A for focus area contact information.

* * *

14-20b. Central line-associated bloodstream infection.

National Data Source National Nosocomial Infections Surveillance (NNIS)

System, CDC, NCID.

State Data Source Not identified.

Healthy People 2000

Objective

Adapted from 20.5 (Immunization and Infectious

Diseases).

Measure Rate per 1,000 days' use.

Baseline 5.3 (1998).

Numerator Number of hospital-acquired central line-associated

bloodstream infections among intensive care unit

patients.

Denominator Number of central line-days among intensive care

unit patients.

Population Targeted Acute care general hospital patient population.

Questions Used To Obtain the National Data Numerator: CDC National Nosocomial Infections Surveillance System Infection Worksheet, Form 57.58D, Rev. 01/98.

Denominator: CDC National Nosocomial Infections Surveillance System Adult and Pediatric Intensive Care Unit (ICU) Monthly Report Form, Form 57.58B, Rev. 01/98, and CDC National Nosocomial Infections Surveillance Infection Worksheet. Forms

57.58 B and D, Rev. 01/98.

Expected Periodicity

Annual.

Comments

The 1998 point estimate represents an aggregate of data from all types of ICUs from January 1992 through March 1999.

Data may not be representative of all U.S. hospitals. For each year of data collection, not all participating hospitals are represented.

Detailed surveillance protocols used in NNIS System, including all data field definitions, can be found in the *NNIS Manual*, May 1999 (available by request to *NNIS hospitals*, State health departments, and international ministries of health). ¹² Definitions of infections and key data fields and a description of the protocols are available. ^{13, 14}

This objective is a modification of Healthy People 2000 objective 20.5, which tracked bloodstream infection rates per 1,000 device days among patients by specific type of intensive care unit categories (surgical ICUs, medical ICUs, and pediatric ICUs). This measure tracks central line-associated bloodstream infection rates per 1,000 days' use among patients in all ICUs.

See Appendix A for focus area contact information.

* * *

14-20c. Ventilator-associated pneumonia.

National Data Source National Nosocomial Infections Surveillance (NNIS)

System, CDC, NCID.

State Data Source Not identified.

Healthy People 2000

Objective

Adapted from 20.5 (Immunization and Infectious

Diseases).

Measure Rate per 1,000 days' use.

Baseline 11.1 (1998).

Numerator Number of hospital-acquired ventilator-associated

pneumonia infections among intensive care unit

patients.

Denominator Number of ventilator-days among intensive care unit

patients.

Population Targeted Acute care general hospital patient population.

Questions Used To Obtain the National Data Numerator: CDC National Nosocomial Infections Surveillance System Infection Worksheet, Form

57.58D, Rev. 01/98.

Denominator: CDC National Nosocomial Infections Surveillance System Adult and Pediatric Intensive Care Unit (ICU) Monthly Report Form, Form 57.58B,

Rev. 01/98.

Expected Periodicity A

Annual.

Comments

The 1998 point estimate represents an aggregate of data from all types of ICUs from January 1992

through March 1999.

Data may not be representative of all U.S. hospitals. For each year of data collection, not all participating

hospitals are represented.

Detailed surveillance protocols used in NNIS System, including all data field definitions, can be found in the *NNIS Manual*, May 1999 (available by request to NNIS hospitals, State health departments, and international ministries of health).¹² Definitions of infections and key data fields and a description of

the protocols are available. 13, 14

This objective is a modification of Healthy People 2000 objective 20.5, which tracked pneumonia infection rates per 1,000 device days among patients by specific type of intensive care unit categories (surgical ICUs, medical ICUs, and pediatric ICUs).

This measure tracks ventilator-associated pneumonia infection rates per 1,000 days' use

among all ICUs.

See Appendix A for focus area contact information.

Infants weighing 1,000 grams or less at birth in intensive care

14-20d. Central line-associated bloodstream infection.

National Data Source National Nosocomial Infections Surveillance (NNIS)

System, CDC, NCID.

State Data Source Not identified.

Healthy People 2000

Objective

Adapted from 20.5 (Immunization and Infectious

Diseases).

Measure Rate per 1,000 days' use.

Baseline 12.2 (1998).

Numerator Number of hospital-acquired central line-associated

bloodstream infections among infants with a birth

weight of 1,000 grams or less.

Denominator Number of central line-days among infants with a

birth weight of 1,000 grams or less.

Population Targeted Acute care general hospital patient population.

Questions Used To Obtain the National

Data

Numerator: CDC National Nosocomial Infections Surveillance System Infection Worksheet, Form

57.58D, Rev. 01/98.

Denominator: CDC National Nosocomial Infections Surveillance System High Risk Nursery (HRN) Surveillance Monthly Report Form, Form 57.58H,

Rev. 01/98.

Expected Periodicity Annual.

Comments The 1998 point estimate represents an aggregate of

data from high-risk nurseries (level II-III neonatal intensive care units) from January 1990 through May

1999.

Data may not be representative of all U.S. hospitals. For each year of data collection, not all participating

hospitals are represented.

Detailed surveillance protocols used in NNIS System, including all data field definitions, can be found in the *NNIS Manual*, May 1999 (available by request to NNIS hospitals, State health departments, and international ministries of health). ¹² Definitions of infections and key data fields and a description of

the protocols are available. 13, 14

This objective is a modification of Healthy People 2000 objective 20.5, which tracked bloodstream infection rates per 1,000 device days among patients by specific type of intensive care unit categories (surgical ICUs, medical ICUs, and pediatric ICUs). This measure tracks central line-associated bloodstream infection rates per 1,000 days' use among infants weighing 1,000 grams or less at birth in all level II-III neonatal ICUs.

See Appendix A for focus area contact information.

* * *

14-20e. Ventilator-associated pneumonia.

National Data Source National Nosocomial Infections Surveillance (NNIS)

System, CDC, NCID.

State Data Source Not identified.

Healthy People 2000

Objective

Adapted from 20.5 (Immunization and Infectious

Diseases)

Measure Rate per 1,000 days' use.

Baseline 4.9 (1998).

Numerator Number of hospital-acquired ventilator-associated

pneumonia infections among infants with a birth

weight of 1,000 grams or less.

Denominator Number of ventilator-days among infants with a birth

weight of 1,000 grams or less.

Population Targeted Acute care general hospital patient population.

Questions Used To Obtain the National

Data

Numerator: CDC National Nosocomial Infections Surveillance System Infection Worksheet, Form

57.58D, Rev. 01/98.

Denominator: CDC National Nosocomial Infections Surveillance System High Risk Nursery (HRN) Surveillance Monthly Report Form, Form 57.58H, Rev. 01/98, and CDC National Nosocomial

Infections Surveillance System High Risk Nursery (HRN) Surveillance Monthly Report Form, Form

57.58H, Rev. 01/98.

Expected Periodicity Annual.

Comments

The 1998 point estimate represents an aggregate of data from high-risk nurseries (level II-III neonatal intensive care units) from January 1990 through May 1999.

Data may not be representative of all U.S. hospitals. For each year of data collection, not all participating hospitals are represented.

Detailed surveillance protocols used in NNIS System, including all data field definitions, can be found in the *NNIS Manual*, May 1999 (available by request to NNIS hospitals, State health departments, and international ministries of health). Definitions of infections and key data fields and a description of the protocols are available. 13, 14

This objective is a modification of Healthy People 2000 objective 20.5, which tracked pneumonia infection rates per 1,000 device days among patients in pediatric ICUs. This measure tracks ventilator-associated pneumonia infection rates per 1,000 days' use among infants weighing 1,000 grams or less at birth in all level II-III neonatal ICUs.

See Appendix A for focus area contact information.



14-21. Reduce antimicrobial use among intensive care unit patients.

National Data Source National Nosocomial Infections Surveillance (NNIS)

System, CDC, NCID.

State Data Source Not identified.

Healthy People 2000

Objective

Adapted from 20.5 (Immunization and Infectious

Diseases).

Measure Rate per 1,000 Intensive Care Unit (ICU) days.

Baseline 150 (1995).

Numerator Number of defined daily doses of FDA-approved

antimicrobial agents or grams per day of FDAapproved antimicrobial agents of all patients

hospitalized in the intensive care unit.

Denominator Number of all the days of all the patients that are

hospitalized in the ICU (number of patient-days).

Population Targeted Acute care general hospital patient population.

Questions Used ToCDC National Nosocomial Infections Surveillance **Obtain the National**System Antimicrobial Use and Resistance

Data Component Monthly Report Form.

Expected Periodicity Annual.

Comments The 1995 point estimate represents an aggregate of

data for 1994-95.

Grams of specific antibiotics used in intensive care units are based on reports by participating NNIS hospitals. Defined daily dose estimates are available for most FDA-approved antimicrobial agents.

Data may not be representative of all U.S. hospitals. Not all antimicrobial agents are included in the surveillance system. For each year of data collection, not all participating hospitals are necessarily represented. The appropriateness of antibiotic therapies is not addressed in this measure.

Agents dosed by patient weight (i.e., aminoglycosides, macrolides) are defined by total grams administered daily.

See Appendix A for focus area contact information.



Vaccination Coverage and Strategies

- 14-22. Achieve and maintain effective vaccination coverage levels for universally recommended vaccines among young children.
- 4-22a. 4 doses of diphtheria-tetanus-acellular pertussis (DTaP) vaccine.

National Data Source National Immunization Survey (NIS), CDC, NIP and

NCHS.

State Data Source National Immunization Survey (NIS), CDC, NIP and

NCHS.

Healthy People 2000

Objective

Adapted from 20.11 (Immunization and Infectious

Diseases).

Measure Percent.

Baseline 84 (1998).

Numerator Number of children aged 19 to 35 months receiving

at least four or more doses of the combination of diphtheria, tetanus, and acellular pertussis antigens.

Denominator Children aged 19 to 35 months.

Population Targeted U.S. civilian, noninstitutionalized population.

Questions Used To
Obtain the National
Data

From the 1998 National Immunization Survey
Household Survey:

How many D-T-P or D-T shots (sometimes called a D-P-T shot, diphtheria-tetanus-pertussis shot, baby shot, three-in-one shot) has (<u>Sample child</u>) ever received?

Other shots received?

From the 1998 National Immunization Survey Provider Record Check:

Specify month, day and year that each immunization was given, either by the office or another provider (OP), as documented in the records.

Expected Periodicity Annual.

Comments The National Immunization Survey (NIS) is a

continuing nationwide telephone sample survey among children aged 19 to 35 months. Estimates of vaccine-specific coverage are available for the United States, each State, and 28 urban areas considered to be high risk for under-vaccination. NIS uses a two-phase sample design. First, a random-digit-dialing (RDD) sample of telephone

numbers is drawn. In 1995, 69 percent of households with age-eligible children completed vaccination interviews, yielding data for 31,997

children.

The interviewer also asks for permission to contact the vaccination provider. In the second phase, all vaccination providers are contacted by mail. Vaccination information from providers' records was obtained for 52 percent of all children who were eligible for provider followup in 1995 and 64 percent in 1996. Providers' responses are combined with information obtained from households to provide a more accurate estimate of vaccination coverage levels. Final estimates are adjusted for noncoverage of nontelephone households.

For further information, visit the National Immunization Survey Web site at http://www.nisabt.org/.

Statistical adjustments are made to minimize bias due to (1) lower coverage among children living in households without telephones, (2) discrepancies between vaccinations reported by household compared with immunization providers, and (3) differences in race/ethnic population distribution in sample compared to race/ethnic population distribution at birth.

This measure is a modification of its comparable Healthy People 2000 objective 20.11, which tracked the number of children aged 19 to 35 months receiving three or more doses of the combination of diphtheria, tetanus, and pertussis antigens (DTP).

This baseline measure tracks the number of children aged 19 to 35 months receiving four or more doses of the combination of diphtheria, tetanus, and acellular pertussis antigens (DTaP) as well as those children who received the combination of diphtheria, tetanus, and pertussis antigens (DTP).

See Appendix A for focus area contact information.



14-22b. 3 doses Haemophilus influenzae type b (Hib) vaccine.

National Data Source National Immunization Survey (NIS), CDC, NIP and

NCHS.

State Data Source National Immunization Survey (NIS), CDC, NIP and

NCHS.

Healthy People 2000

Objective

20.11 (Immunization and Infectious Diseases).

Measure Percent.

Baseline 93 (1998).

Numerator Number of children aged 19 to 35 months receiving

at least three doses of the Haemophilus influenzae B

antigen.

Denominator Children aged 19 to 35 months.

Population Targeted U.S. civilian, noninstitutionalized population.

Questions Used To Obtain the National Data From the 1998 National Immunization Survey

Household Survey:

How many H-I-B shots (this is for Meningitis and is called Haemophilus Influenzae), H-I-B vaccine, or H flu vaccine has (Sample child) ever received?

> Other shots received?

From the 1998 National Immunization Survey Provider Record Check:

Specify month, day and year that each immunization was given, either by the office or another provider (OP), as documented in the records.

Expected Periodicity Annual.

Comments See Comments provided with objective 14-22a for

more information.

* * *

14-22c. 3 doses hepatitis B (hep B) vaccine.

National Data Source National Immunization Survey (NIS), CDC, NIP and

NCHS.

State Data Source National Immunization Survey (NIS), CDC, NIP and

NCHS.

Healthy People 2000

Objective

20.11 (Immunization and Infectious Diseases)

Measure Percent.

Baseline 87 (1998).

Numerator Number of children aged 19 to 35 months receiving

at least three doses of the hepatitis B antigen.

Denominator Children aged 19 to 35 months.

Population Targeted U.S. civilian, noninstitutionalized population.

Questions Used To Obtain the National Data

From the 1998 National Immunization Survey

Household Survey:

How many Hepatitis B shots has (Sample child) ever

received?

Other shots received?

From the 1998 National Immunization Survey

Provider Record Check:

Specify month, day and year that each immunization was given, either by the office or another provider

(OP), as documented in the records.

Expected Periodicity Annual.

Comments See Comments provided with objective 14-22a for

more information.

14-22d. 1 dose measles-mumps-rubella (MMR) vaccine.

National Data Source National Immunization Survey (NIS), CDC, NIP and

NCHS.

State Data Source National Immunization Survey (NIS), CDC, NIP and

NCHS.

Healthy People 2000

Objective

20.11 (Immunization and Infectious Diseases).

Measure Percent. Baseline 92 (1998).

Numerator Number of children aged 19 to 35 months receiving

at least one dose of the combination of measles,

mumps, and rubella antigens.

Denominator Children aged 19 to 35 months.

Population Targeted U.S. civilian, noninstitutionalized population.

Questions Used To Obtain the National Data

From the 1998 National Immunization Survey Household Survey:

- How many measles or M-M-R (Measles-Mumps-Rubella) shots has (<u>Sample child</u>) ever received?
- Other shots received?

From the 1998 National Immunization Survey Provider Record Check:

Specify month, day and year that each immunization was given, either by the office or another provider (OP), as documented in the records.

Expected Periodicity

Annual.

Comments

The MMR estimate for 1998 is based on all measlescontaining vaccines.

See Comments provided with objective 14-22a for more information.



14-22e. 3 doses polio vaccine.

National Data Source National Immunization Survey (NIS), CDC, NIP and

NCHS.

State Data Source National Immunization Survey (NIS), CDC, NIP and

NCHS.

Healthy People 2000

Objective

20.11 (Immunization and Infectious Diseases).

Measure Percent.

Baseline 91 (1998).

Numerator Number of children aged 19 to 35 months receiving

at least three doses of the polio antigen.

Denominator Children aged 19 to 35 months.

Population Targeted U.S. civilian, noninstitutionalized population.

Questions Used To Obtain the National Data From the 1998 National Immunization Survey

Household Survey:

- How many polio vaccine shots (by mouth, pink drops, or by a polio shot) has (<u>Sample child</u>) ever received?
- > Other shots received?

From the 1998 National Immunization Survey Provider Record Check:

Specify month, day and year that each immunization was given, either by the office or another provider (OP), as documented in the records.

Expected Periodicity Annual.

Comments See Comments provided with objective 14-22a for

more information.

***** * *

14-22f. 1 dose varicella vaccine.

National Data Source National Immunization Survey (NIS), CDC, NIP and

NCHS.

State Data Source National Immunization Survey (NIS), CDC, NIP and

NCHS.

Healthy People 2000

Objective

Not applicable.

Measure Percent.

Baseline 43 (1998).

Numerator Number of children aged 19 to 35 months receiving

at least one dose of the varicella antigen.

Denominator Children aged 19 to 35 months.

Population Targeted U.S. civilian, noninstitutionalized population.

Questions Used To Obtain the National

Data

From the 1998 National Immunization Survey

Household Survey:

How many chicken pox (or Varicella) shots has (Sample child) ever received?

> Other shots received?

From the 1998 National Immunization Survey

Provider Record Check:

Specify month, day and year that each immunization was given, either by the office or another provider

(OP), as documented in the records.

Expected Periodicity Annual.

Comments See Comments provided with objective 14-22a for

more information.

14-23. Maintain vaccination coverage levels for children in licensed day care facilities and children in kindergarten through the first grade.

Children in day care

14-23a. Diphtheria-tetanus-acellular pertussis (DTaP) vaccine.

National Data Source Annual Immunization Assessment Reports, CDC,

NIP.

State Data Source Annual Immunization Assessment Reports, CDC,

NIP.

Healthy People 2000

Objective

20.11 (Immunization and Infectious Diseases).

Measure Percent (2-year average).

Baseline 96 (1997–98).

Numerator Number of surveyed enrollees in day care centers

who received the combination of diphtheria, tetanus, and either acellular pertussis or pertussis antigens.

Denominator Number of surveyed enrollees in day care centers.

Population Targeted U.S. day care center population.

Questions Used To Obtain the National

Data

CDC Annual Immunization Assessment Report: Day Care Centers, Head Start Centers, and Schools.

Expected Periodicity Biennial.

Comments Baseline includes enrollees who received the

combination of diphtheria, tetanus, and pertussis

antigens.

States may collect and/or report data on selective antigens depending upon school entry requirements.

Overall (national) mean coverage levels are estimated by weighting the vaccine-specific

coverage levels reported by States and territories to

their respective birth cohorts.

Sampling methodology may vary by State.

See Appendix A for focus area contact information.

*** * ***

14-23b. Measles/mumps/rubella vaccines.

National Data Source Annual Immunization Assessment Reports, CDC,

NIP.

State Data Source Annual Immunization Assessment Reports, CDC,

NIP.

Healthy People 2000

Objective

20.11 (Immunization and Infectious Diseases).

Measure Percent (2-year average).

Baseline 89 (1997–98).

Numerator Number of surveyed enrollees in day care centers

who received the combination of measles, mumps,

and rubella antigens.

Denominator Number of surveyed enrollees in day care centers.

Population Targeted U.S. day care center population.

Questions Used To Obtain the National

Data

CDC Annual Immunization Assessment Report: Day Care Centers, Head Start Centers, and Schools.

Expected Periodicity Biennial.

Comments See Comments provided with objective 14-23a for

more information.

* * *

14-23c. Polio vaccine.

National Data Source Annual Immunization Assessment Reports, CDC,

NIP.

State Data Source Annual Immunization Assessment Reports, CDC,

NIP.

Healthy People 2000

Objective

20.11 (Immunization and Infectious Diseases)

Measure Percent (2-year average).

Baseline 96 (1997–98).

Numerator Number of surveyed enrollees in day care centers

who received the polio antigen.

Denominator Number of surveyed enrollees in day care centers.

Population Targeted U.S. day care center population.

Questions Used To Obtain the National Data CDC Annual Immunization Assessment Report: Day Care Centers, Head Start Centers, and Schools.

Expected Periodicity

Biennial.

Comments

See Comments provided with objective 14-23a for more information.

« « «

14-23d. (Developmental) Hepatitis B vaccine.

Comments

An operational definition could not be specified at the time of publication.

The proposed national and State data sources are the Annual Immunization Assessment Reports, CDC, NIP.

The proposed numerator is the number of surveyed enrollees in day care centers who received the hepatitis B antigen. The proposed denominator is the number of surveyed enrollees in day care centers.

See Appendix A for focus area contact information.

* * *

14-23e. (Developmental) Varicella vaccine.

Comments

An operational definition could not be specified at the time of publication.

The proposed national and State data sources are the Annual Immunization Assessment Reports, CDC, NIP.

The proposed numerator is the number of surveyed enrollees in day care centers who received the varicella antigen. The proposed denominator is the number of surveyed enrollees in day care centers.

See Appendix A for focus area contact information.

* * *

Children in K through 1st grade

14-23f. Diphtheria-tetanus-acellular pertussis (DTaP) vaccine.

National Data Source Annual Immunization Assessment Reports, CDC,

NIP.

State Data Source Annual Immunization Assessment Reports, CDC,

NIP.

Healthy People 2000

Objective

20.11 (Immunization and Infectious Diseases).

Measure Percent (2-year average).

Baseline 97 (1997–98).

Numerator Number of surveyed enrollees in kindergarten and/or

first grade who received the combination of

diphtheria, tetanus, and either acellular pertussis or

pertussis antigens.

Denominator Number of surveyed enrollees in kindergarten and/or

first grade.

Population Targeted U.S. kindergarten and first grade student population.

Questions Used To Obtain the National

Data

CDC Annual Immunization Assessment Report: Day Care Centers, Head Start Centers, and Schools.

Expected Periodicity Annual.

Comments See Comments provided with objective 14-23a for

more information.

*** * ***

14-23g. Measles/mumps/rubella vaccines.

National Data Source Annual Immunization Assessment Reports, CDC,

NIP.

State Data Source Annual Immunization Assessment Reports, CDC,

NIP.

Healthy People 2000

Objective

20.11 (Immunization and Infectious Diseases).

Measure Percent (2-year average).

Baseline 96 (1997–98).

Numerator Number of surveyed enrollees in kindergarten and/or

first grade who received the combination of measles,

mumps, and rubella antigens.

Denominator Number of surveyed enrollees in kindergarten and/or

first grade.

Population Targeted U.S. kindergarten and first grade student population.

Questions Used To Obtain the National Data CDC Annual Immunization Assessment Report: Day Care Centers, Head Start Centers, and Schools.

Expected Periodicity Annual.

Comments See Comments with objective 14-23a for more

information.

***** * *

14-23h. Polio vaccine.

National Data Source Annual Immunization Assessment Reports, CDC,

NIP.

State Data Source Annual Immunization Assessment Reports, CDC,

NIP.

Healthy People 2000

Objective

20.11 (Immunization and Infectious Diseases)

Measure Percent (2-year average).

Baseline 97 (1997–98).

Numerator Number of surveyed enrollees in kindergarten and/or

first grade who received the polio antigen.

Denominator Number of surveyed enrollees in kindergarten and/or

first grade.

Population Targeted U.S. kindergarten and first grade student population.

Questions Used To Obtain the National

Data

CDC Annual Immunization Assessment Report: Day Care Centers, Head Start Centers, and Schools.

Expected Periodicity Annual.

Comments See Comments provided with objective 14-23a for

more information.

***** * *

14-23i. (Developmental) Hepatitis B vaccine.

Comments

An operational definition could not be specified at

the time of publication.

The proposed national and State data sources are the Annual Immunization Assessment Reports,

CDC, NIP.

The proposed numerator is the number of surveyed enrollees in kindergarten and/or first grade who received the hepatitis B antigen. The proposed denominator is the number of surveyed enrollees in kindergarten and/or first grade.

See Appendix A for focus area contact information.

« « «

14-23j. (Developmental) Varicella vaccine.

Comments

An operational definition could not be specified at the time of publication.

The proposed national and State data sources are the Annual Immunization Assessment Reports, CDC, NIP.

The proposed numerator is the number of surveyed enrollees in kindergarten and/or first grade who received the varicella antigen. The proposed denominator is the number of surveyed enrollees in kindergarten and/or first grade.

See Appendix A for focus area contact information.



- 14-24. Increase the proportion of young children and adolescents who receive all vaccines that have been recommended for universal administration for at least 5 years.
- 14-24a. Children aged 19 to 35 months who received the recommended vaccines (4 DTaP, 3 polio, 1 MMR, 3 Hib, 3 hepatitis B).

National Data Source National Immunization Survey (NIS), CDC, NIP and NCHS.

State Data Source National Immunization Survey (NIS), CDC, NIP and

NCHS.

Healthy People 2000

Objective

Adapted from 20.11 (Immunization and Infectious

Diseases).

Leading Health

Immunization.

Indicator

Measure Percent. **Baseline** 73 (1998).

Numerator Number of children aged 19 to 35 months receiving

at least four doses of diphtheria-tetanus-acellular pertussis (DTaP), at least three doses of polio, at least one dose of measles-mumps-rubella (MMR), at least three doses of Haemophilus influenzae B (Hib), and at least three doses of hepatitis B antigens.

Denominator Children aged 19 to 35 months.

Population Targeted U.S. civilian, noninstitutionalized population.

Questions Used To Obtain the National Data

From the 1998 National Immunization Survey Household Survey:

- How many D-T-P or D-T shots (sometimes called a D-P-T shot, diphtheria-tetanus-pertussis shot, baby shot, three-in-one shot) has (Sample child) ever received?
- How many polio vaccine shots (by mouth, pink drops, or by a polio shot) has (Sample child) ever received?
- How many measles or M-M-R (Measles-Mumps-Rubella) shots has (Sample child) ever received?
- ➤ How many H-I-B shots (this is for Meningitis and is called Haemophilus Influenzae), H-I-B vaccine, or H flu vaccine has (Sample child) ever received?
- How many Hepatitis B shots has (Sample child) ever received?
- Other shots received?

From the 1998 National Immunization Survey Provider Record Check:

Specify month, day and year that each immunization was given, either by the office or another provider (OP), as documented in the records.

Expected Periodicity Annual.

Comments

Any new vaccines that have been universally recommended for at least 5 years will be added to the series over the course of Healthy People 2010.

See Comments provided with objective 14-22a for more information on NIS.

This objective differs from the comparable measure in Healthy People 2000 objective 20.11, which tracked children aged 19 to 35 months with at least four doses of diphtheria-tetanus-pertussis (DTAP), at least three doses of polio, and at least one dose of measles-mumps-rubella (MMR) only. This objective adds Haemophilus influenzae type B and hepatitis B.

This objective is one of the measures used to track the Immunization Leading Health Indicator. See Appendix H for a complete listing.

See Appendix A for focus area contact information.



14-24b. (Developmental) Adolescents aged 13 to 15 years who received the recommended vaccines.

Comments

An operational definition could not be provided at the time of publication.

The proposed source is the National Health Interview Survey (NHIS), CDC, NCHS.

Currently there are no vaccines for adolescents aged 13 to 15 years that have been universally recommended for at least 5 years. As vaccines for adolescents aged 13 to 15 years are identified over the course of Healthy People 2010, they will be tracked.

See Part C for a description of NHIS and Appendix A for focus area contact information.



14-25. Increase the proportion of providers who have measured the vaccination coverage levels among children in their practice population within the past 2 years.

14-25a. Public health providers.	
National Data Source	Immunization Program Annual Reports, CDC, NIP.
State Data Source	Immunization Program Annual Reports, CDC, NIP.
Healthy People 2000 Objective	Not applicable.
Measure	Percent.
Baseline	66 (1997).
Numerator	Number of public provider sites that routinely provided immunizations in the past 2 years to children under age 6 years and participated in a provider assessment at least once in the past 2 years.
Denominator	Number of public provider sites that routinely provided immunizations in the past 2 years to children under age 6 years.
Questions Used To Obtain the National Data	From the 1997 Immunization Program Annual Report:
	Enter the number of public provider sites, by type, that routinely provide immunizations to children aged less than 6 years:
	Health department clinics Community/migrant health centers Indian Health Service/Tribal clinics Other public providers
	How many private provider sites in your jurisdiction provide immunizations to preschool children?
	Status of Assessment and Feedback of Provider Immunization Practices:

assessment

assessment

Expected Periodicity Annual.

Number of public provider sites (by type

Number of private provider sites (by type

of public provider) that participated in a clinic

of private provider) that participated in a provider

Comments

A provider site is a service delivery location that maintains permanent records, excluding temporary locations or mobile immunization clinics or fairs and the like. Well-child clinics and immunization-only clinics in the same location should be counted as separate sites only if they maintain separate sets of records.

Public providers include health department clinics, community/migrant health centers, Indian Health Service/Tribal health clinics, or other public providers (for example, any other public clinic that provides immunizations, such as a county medical center outpatient clinic).

Private providers are individual or group primary care or pediatric practices and may include providers for which some or all of their clients are members of different managed care plans or managed care organizations.

A public provider assessment is an assessment that includes a review of a random sample (or 100 percent) of immunization records of 2-year-olds. The assessment may have been conducted by project, clinic, or contractual personnel.

A private provider assessment is an assessment that includes a review of a random sample (or 100 percent) of immunization records of 2-year-olds. The assessment may have been conducted either by immunization project staff or through a contractual agreement that provides this service.

See Appendix A for focus area contact information.



14-25b. Private providers.

National Data Source Immunization Program Annual Reports, CDC, NIP.

State Data Source Immunization Program Annual Reports, CDC, NIP.

Healthy People 2000 Not applicable.

Objective

Measure Percent.

Baseline 6 (1997).

Numerator Number of private provider sites that routinely

provided immunizations in the past 2 years to children under age 6 years and participated in a provider assessment at least once in the past 2

years.

Denominator Number of private provider sites that routinely

provided immunizations in the past 2 years to

children under age 6 years.

Questions Used To Obtain the National Data See Questions Used To Obtain the National Data

provided with objective 14-25a.

Expected Periodicity Annual.

Comments See Comments provided with objective 14-25a for

more information.

***** * *

14-26. Increase the proportion of children who participate in fully operational population-based immunization registries.

National Data Source Immunization Program Annual Reports, CDC, NIP.

State Data Sources State Immunization Program Survey, CDC, NIP;

Community Population-Based Registry Reports.

Healthy People 2000

Objective

Not applicable.

Measure Percent.

Baseline 32 (1999).

Numerator Number of children under age 6 years who have at

least one immunization record in the registry.

Denominator Number of children under age 6 years.

Population Targeted U.S. resident population.

Questions Used To Obtain the National

From the 1998 State Immunization Program Survey:

Data

➤ How many children less than 6 years old (0-5 year olds) are in your catchment area?

How many children less than 6 years old (0-5 year olds) are in your registry and have at least one vaccination recorded (excluding the first hepatitis B dose at birth)?

Expected Periodicity Annual.

Comments Baseline is a proxy measure. By 2005, data from the

registry systems will be used to track this objective, instead of the current survey data from immunization

program grantees.

Starting in 2000, questions will be asked about children under age 6 years who are in the registry

and have two vaccinations recorded.

See Appendix A for focus area contact information.

14-27. Increase routine vaccination coverage levels for adolescents.

14-27a. 3 or more doses of hepatitis B.

National Data Source National Health Interview Survey (NHIS), CDC,

NHIS.

State Data Source Not identified.

Healthy People 2000

Objective

Adapted from 20.11 (Immunization and Infectious

Diseases).

Measure Percent.

Baseline 48 (1997).

Numerator Number of adolescents aged 13 to 15 years reported

to be vaccinated with three or more doses of the

hepatitis B antigens.

Denominator Number of adolescents aged 13 to 15 years.

Population Targeted U.S. civilian, noninstitutionalized population.

Questions Used To Obtain the National

Data

From the 1997 National Health Interview Survey:

- Are shot records available for (Child's name)?
- Are all the immunizations the (Child's name) ever received included in this shot record?

➤ Are there any OTHER immunizations listed on the shot record that I have NOT asked you about?

[If yes:]

 What are the names of OTHER immunizations listed on the shot record that I have NOT asked you about?

Influenza
Pneumococcal
Hepatitis A
Other immunizations

Has (<u>Child's name</u>) ever received an additional Hepatitis B shot?

[If yes:]

 How many additional Hepatitis B shots has (Child's name) ever received?

[If no shot record (or incomplete):]

 Has (<u>Child's name</u>) ever received an immunization (that is a shot or drops)?

Expected Periodicity

Annual.

Comments

This objective is a modification of Healthy People 2000 objective 20.11, which tracked immunization coverage for selected antigens (three or more doses of DTP, three or more doses of polio, one or more doses of measles-containing, three or more doses of Haemophilus influenzae type B, and three or more doses of hepatitis B) among children aged 19 to 35 months. This objective tracks selected antigens (two or more doses of MMR, three or more doses of hepatitis B, one or more doses of varicella if indicated, and one or more doses of tetanus-diphtheria booster) among adolescents aged 13 to 15 years.

See Part C for a description of NHIS and Appendix A for focus area contact information.



14-27b. 2 or more doses of measles, mumps, rubella.

National Data Source National Health Interview Survey (NHIS), CDC,

NHIS.

State Data Source Not identified.

Healthy People 2000

Objective

Adapted from 20.11 (Immunization and Infectious

Diseases).

Measure

Percent.

Baseline

89 (1997).

Numerator

Number of adolescents aged 13 to 15 years reported

to be vaccinated with two or more doses of the

measles, mumps, and rubella antigens.

Denominator

Number of adolescents aged 13 to 15 years.

Population Targeted

U.S. civilian, noninstitutionalized population.

Questions Used To Obtain the National Data From the 1997 National Health Interview Survey:

- Are shot records available for (<u>Child's name</u>)?
- Are all the immunizations the (<u>Child's name</u>) ever received included in this shot record?
- > Are there any OTHER immunizations listed on the shot record that I have NOT asked you about?

[If yes:]

 What are the names of OTHER immunizations listed on the shot record that I have NOT asked you about?

Influenza Pneumococcal Hepatitis A Other immunizations

Has (<u>Child's name</u>) ever received an additional measles or MMR (measles, mumps, rubella) shot?

[If yes:]

 How many additional measles or MMR (measles, mumps, rubella) shots has (<u>Child's</u> name) ever received?

[If no shot record (or incomplete):]

 Has (<u>Child's name</u>) ever received an immunization (that is a shot or drops)?

Expected Periodicity

Annual.

Comments

See Comments provided with objective 14-27a for more information.



14-27c. 1 or more doses of tetanus-diphtheria booster.

National Data Source National Health Interview Survey (NHIS), CDC,

NHIS.

State Data Source Not identified.

Healthy People 2000

Objective

Adapted from 20.11 (Immunization and Infectious

Diseases).

Measure Percent.

Baseline 93 (1997).

Numerator Number of adolescents aged 13 to 15 years reported

to be vaccinated with two or more doses of the

tetanus and diphtheria antigens.

Denominator Number of adolescents aged 13 to 15 years.

Population Targeted U.S. civilian, noninstitutionalized population.

Questions Used To Obtain the National Data From the 1997 National Health Interview Survey:

- > Are shot records available for (Child's name)?
- Are all the immunizations the (<u>Child's name</u>) ever received included in this shot record?
- Are there any OTHER immunizations listed on the shot record that I have NOT asked you about?

[If yes:]

 What are the names of OTHER immunizations listed on the shot record that I have NOT asked you about?

Influenza
Pneumococcal
Hepatitis A
Other immunizations

> Has (<u>Child's name</u>) ever received an additional tetanus-diphtheria (Td) shot?

[If yes:]

 How many additional tetanus-diphtheria (Td) shots has {Child's name} ever received?

[If no shot record (or incomplete):]

 Has (<u>Child's name</u>) ever received an immunization (that is a shot or drops)?

Expected Periodicity Annual.

Comments See Comments provided with objective 14-27a for

more information.

14-27d. 1 or more doses of varicella.

National Data Source National Health Interview Survey (NHIS), CDC,

NHIS.

State Data Source Not identified.

Healthy People 2000

Objective

Adapted from 20.11 (Immunization and Infectious

Diseases).

Measure Percent.

Baseline 45 (1997).

Numerator Number of adolescents aged 13 to 15 years reported

to be vaccinated with two or more doses of the varicella antigen, excluding those who are reported

to ever have had varicella (chicken pox).

Denominator Number of adolescents aged 13 to 15 years

excluding those who are reported to ever have had

varicella (chicken pox).

Population Targeted

U.S. civilian, noninstitutionalized population.

Questions Used To Obtain the National Data From the 1997 National Health Interview Survey:

[NUMERATOR:]

- > Are shot records available for (Child's name)?
- Are all the immunizations the (<u>Child's name</u>) ever received included in this shot record?
- ➤ Are there any OTHER immunizations listed on the shot record that I have NOT asked you about?

[If yes:]

 What are the names of OTHER immunizations listed on the shot record that I have NOT asked you about?

Influenza
Pneumococcal
Hepatitis A
Other immunizations

Has (<u>Child's name</u>) ever received an additional chicken pox shot?

[If yes:]

 How many additional chicken pox shots has (Child's name) ever received? [If no shot record (or incomplete):]

 Has (<u>Child's name</u>) ever received an immunization (that is a shot or drops)?

[DENOMINATOR:]

➤ Has (Child's name) EVER had chicken pox?

Expected Periodicity Annual.

Comments See Comments provided with objective 14-27a for

more information.

* * *

14-28. Increase hepatitis B vaccine coverage among high-risk groups.

14-28a. Long-term hemodialysis patients.

National Data Source Annual Survey of Chronic Hemodialysis Centers,

CDC, NCID and HCFA.

State Data Source Not identified.

Healthy People 2000

Objective

Not applicable.

Measure Percent.

Baseline 35 (1995).

Numerator Number of patients receiving chronic hemodialysis

who have ever received at least three doses of

hepatitis B vaccine.

Denominator Number of patients receiving chronic hemodialysis.

Population Targeted U.S. chronic hemodialysis patient population.

Questions Used To Obtain the National

Data

From the 1995 Annual Survey of Chronic

Hemodialysis Centers:

How many patients were assigned to your hemodialysis center as of (date of survey)?

How many of these patients had ever in their lives received at least 3 doses of hepatitis B vaccine?

Expected Periodicity Annual.

Comments See Appendix A for focus area contact information.

14-28b. Men who have sex with men.

Comments A complete operational definition was not provided

at the time of publication.

The national data source is the Young Men's Survey, National Center for HIV, STD, and TB

Prevention, CDC, NCHSTP.

This objective is comparable to one of the measures

in Healthy People 2000 objective 20.11 (Immunization and Infectious Diseases).

See Appendix A for focus area contact information.

***** * *

14-28c. Occupationally exposed workers.

National Data Source Periodic Vaccine Coverage Surveys, CDC, NCID

(See Comments).

State Data Source Not identified.

Healthy People 2000

Objective

20.11 (Immunization and Infectious Diseases) (also

10.9).

Measure Percent.

Baseline 71 (1995).

Numerator Number of health care workers reported by

participating facilities to have received at least three

doses of hepatitis B vaccine.

Denominator Number of health care workers employed at

participating facilities.

Population Targeted U.S. health care worker population.

Questions Used To Obtain the National

Data

From the 1995 survey: 15, 16

How many full-time and part-time staff who had direct contact with patients were employed at your center?

> How many of these staff had ever received at least 3

doses of hepatitis B vaccine?

Expected Periodicity Periodic.

Comments Methodology on measuring this objective has been

previously published. 15, 16

The expected periodicity for measuring this objective

is every 5 years.

See Appendix A for focus area contact information.

* * *

14-29. Increase the proportion of adults who are vaccinated annually against influenza and ever vaccinated against pneumococcal disease.

Noninstitutionalized adults aged 65 years and older

14-29a. Influenza vaccine.

National Data Source National Health Interview Survey (NHIS), CDC,

NCHS.

State Data Source Behavioral Risk Factor Surveillance System

(BRFSS), CDC, NCCDPHP.

Healthy People 2000

Objective

20.11 (Immunization and Infectious Diseases), age

adjusted to the 2000 standard population.

Leading Health

Indicator

Immunization.

Measure Percent (age adjusted—see Comments).

Baseline 64 (1998).

Numerator Number of adults aged 65 years and older who

report receiving an influenza vaccination in the past

12 months.

Denominator Number of adults aged 65 years and older.

Population Targeted U.S. civilian, noninstitutionalized population.

Questions Used To Obtain the National

Data

From the 1998 National Health Interview Survey:

During the PAST 12 MONTHS, have you had a flu shot? A flu shot is usually given in the fall and protects against influenza for the flu season.

Expected Periodicity Annual.

Comments Data are age adjusted to the 2000 standard

population. Age-adjusted percents are weighted sums of age-specific percents. For a discussion on

age adjustment, see Part A, section 5.

This objective is one of the measures used to track the Immunization Leading Health Indicator. See

Appendix H for a complete listing.

See Part C for a description of NHIS and BRFSS and Appendix A for focus area contact information.

****** ** **

14-29b. Pneumococcal vaccine.

National Data Source National Health Interview Survey (NHIS), CDC,

NCHS.

State Data Source Behavioral Risk Factor Surveillance System

(BRFSS), CDC, NCCDPHP.

Healthy People 2000

Objective

20.11 (Immunization and Infectious Diseases), age

adjusted to the 2000 standard population.

Leading Health

Indicator

Immunization.

Measure Percent (age adjusted—see Comments).

Baseline 46 (1998).

Numerator Number of adults aged 65 years and older who

report ever receiving a pneumococcal vaccination.

Denominator Number of adults aged 65 years and older.

Population Targeted U.S. civilian, noninstitutionalized population.

Questions Used To Obtain the National

Data

From the 1998 National Health Interview Survey:

Have you EVER had a pneumonia vaccination? This shot is usually given only once in a person's lifetime

and is different from the flu shot.

Expected Periodicity Annual.

Comments See Comments provided with objective 14-29a for

more information.

Noninstitutionalized high-risk adults aged 18 to 64 years

14-29c. Influenza vaccine.

National Data Source National Health Interview Survey (NHIS), CDC,

NCHS.

State Data Source Behavioral Risk Factor Surveillance System

(BRFSS), CDC, NCCDPHP.

Healthy People 2000

Objective

20.11 (Immunization and Infectious Diseases), age

adjusted to the 2000 standard population.

Measure Percent (age adjusted—see Comments).

Baseline 26 (1998).

Numerator Number of high-risk persons aged 18 to 64 years

who report receiving an influenza vaccination in the

past 12 months.

Denominator Number of high-risk persons aged 18 to 64 years.

Population Targeted

U.S. civilian, noninstitutionalized population.

Questions Used To Obtain the National Data From the 1998 National Health Interview Survey:

[NUMERATOR:]

During the PAST 12 MONTHS, have you had a flu shot? A flu shot is usually given in the fall and protects against influenza for the flu season.

[DENOMINATOR:]

- Have you EVER been told by a doctor or other health professional that you had...
 - ... Hypertension, also called high blood pressure?
 - ... Coronary heart disease?
 - ... Angina, also called angina pectoris?
 - ... A heart attack (also called myocardial infarction)?
 - ... Any kind of heart condition or heart disease (other
 - than the ones I just asked about)?
 - ... A stroke
 - ... Emphysema?
 - ... Asthma?
- During the PAST 12 MONTHS, have you had an episode of asthma or asthma attack?
- Have you EVER been told by a doctor or other health professional that you had ...
 - ... Cancer or a malignancy of any kind?

[If yes:]

- O What kind of cancer was it?
 - (1) Bladder
 - (2) Blood
 - (3) Bone
 - (4) Brain
 - (5) Breast
 - (6) Cervix
 - (7) Colon
 - (8) Esophagus
 - (9) Gallbladder
 - (10) Kidney
 - (11) Larynx windpipe
 - (12) Leukemia
 - (13) Liver
 - (14) Lung
 - (15) Lymphoma
 - (16) Melanoma
 - (17) Mouth/tongue/lip
 - (18) Ovary
 - (19) Pancreas
 - (20) Prostate
 - (21) Rectum
 - (22) Skin (non-melanoma)
 - (23) Skin (DK what kind)
 - (24) Soft Tissue (muscle or fat)
 - (25) Stomach
 - (26) Testes
 - (27) Throat pharynx
 - (28) Thyroid
 - (29) Uterus
 - (30) Other
 - (96) More than 3 kinds
- (Other than during pregnancy,) Have you EVER been told by a doctor or health professional that you have diabetes or sugar diabetes?
- During the PAST 12 MONTHS, have you been told by a doctor or other health professional that you had..
 - ... Chronic bronchitis?
 - ... Weak or failing kidneys? Do not include kidney stones, bladder infections or incontinence.
 - ... Any kind of liver condition?
- Are you currently pregnant?

Expected Periodicity Annual.

Comments

A high-risk person is defined as a respondent who answered "yes" to one or more of the conditions listed in the questions above. The only condition not included in the definition of high risk is skin cancer (see conditions 22 and 23 listed in Questions Used To Obtain the National Data above). High-risk adults are defined by the Advisory Committee on Immunization Practices (ACIP).

Not all high-risk conditions for complications of influenza and pneumococcal disease can be ascertained by NHIS (for example, immunocompromised), and the sample size may be too small for some groups.

This objective is a modification of Healthy People 2000 objective 20.11, which tracked influenza vaccinations in the past 12 months among persons aged 65 years and older. This measure tracks highrisk persons aged 18 to 64 years.

Data are age adjusted to the 2000 standard population. Age-adjusted percents are weighted sums of age-specific percents. For a discussion on age adjustment, see Part A, section 5.

See Part C for a description of NHIS and BRFSS, and Appendix A for focus area contact information.



14-29d. Pneumococcal vaccine.

National Data Source National Health Interview Survey (NHIS), CDC,

NCHS.

State Data Source Behavioral Risk Factor Surveillance System

(BRFSS), CDC, NCCDPHP.

Healthy People 2000

Objective

20.11 (Immunization and Infectious Diseases), age

adjusted to the 2000 standard population.

Measure Percent (age adjusted—see Comments).

Baseline 13 (1998).

Numerator Number of high-risk persons aged 18 to 64 years

who report ever receiving a pneumococcal

vaccination.

Denominator Number of high-risk persons aged 18 to 64 years.

Population Targeted U.S. civilian, noninstitutionalized population.

Questions Used To Obtain the National

Data

See Questions Used To Obtain the National Data for objectives 14-29b (numerator only) and 14-29c

(denominator only).

Expected Periodicity Annual.

Comments See Comments provided with objective 14-29c for

more information.

* * *

Institutionalized adults (persons in long-term care or nursing homes)

14-29e. Influenza vaccine.

National Data Source National Nursing Home Survey (NNHS), CDC,

NCHS.

State Data Source Not identified.

Healthy People 2000

Objective

20.11 (Immunization and Infectious Diseases), age

adjusted to the 2000 standard population.

Measure Percent (age adjusted—see Comments).

Baseline 59 (1997).

Numerator Number of persons in long-term care facilities and

nursing homes reported to have received an influenza vaccination in the past 12 months.

Denominator Number of persons in long-term care facilities and

nursing homes.

Population Targeted U.S. resident population (see Comments).

Questions Used To Obtain the National

Data

From the 1997 National Nursing Home Survey:

> During the past 12 months, has (Name) had a flu shot at this facility or any other location?

Expected Periodicity Biennial.

Comments Data are from the population residing in long-term

care facilities or nursing homes and exclude

residents in facilities providing only room and board or serving special health problems such as mental

retardation or alcoholism.

Vaccination status is ascertained by the staff member completing the survey based on available records; sampled residents are not queried. In the 1995 NNHS, the percentage of sampled residents for whom vaccination status could not be ascertained was 21 percent for influenza vaccination and 43 percent for pneumococcal vaccination.

The percent vaccinated calculation will include persons with unknown vaccination status in the denominator. Improvements to administration of the survey will be made in 1999 to minimize the reporting of unknown vaccination status.

Data are age adjusted to the 2000 standard population. Age-adjusted percents are weighted sums of age-specific percents. For a discussion on age adjustment, see Part A, section 5.

See Appendix A for focus area contact information.



14-29f. Pneumococcal vaccine.

National Data Source National Nursing Home Survey (NNHS), CDC,

NCHS.

State Data Source Not identified.

Healthy People 2000

Objective

20.11 (Immunization and Infectious Diseases), age

adjusted to the 2000 standard population.

Measure Percent (age adjusted—see Comments).

Baseline 25 (1997).

Numerator Number of persons in long-term care facilities and

nursing homes reported to have ever received a

pneumococcal vaccination.

Denominator Number of persons in long-term facilities and nursing

homes.

Population Targeted U.S. resident population (see Comments).

Questions Used To Obtain the National

From the 1997 National Nursing Home Survey:

Data

➤ Has (Name) ever had a pneumococcal vaccine, that is, a pneumonia vaccination?

Expected Periodicity Biennial.

Comments See Comments provided with objective 14-19e for

more information.



Vaccine Safety

14-30. Reduce vaccine-associated adverse events.

14-30a. Eliminate vaccine-associated paralytic polio (VAPP).

National Data Source National Notifiable Disease Surveillance System

(NNDSS), CDC, EPO.

State Data Source National Notifiable Disease Surveillance System

(NNDSS), CDC, EPO.

Healthy People 2000

Objective

Not applicable.

Measure Number.

Baseline 5 (1997).

Numerator Number of confirmed cases of vaccine-associated

paralytic poliomyelitis.

Denominator Not applicable.

Population Targeted U.S. resident population.

Questions Used To Obtain the National

Data

CDC Suspected Polio Case Worksheet, Rev. 08/98.

Expected Periodicity Annual.

Comments A case definition for paralytic poliomyelitis is

available from CDC.1

A confirmed case of vaccine-associated paralytic poliomyelitis is defined as a person who (1) was vaccinated 4 to 30 days prior to the onset of illness; (2) was exposed to someone vaccinated 4 to 75 days after oral polio vaccine (OPV) was fed to a recipient in contact with a patient, and contact occurred within 30 days before the onset of illness; or (3) had no history of receiving OPV or of contact with an OPV recipient, but the virus was isolated and characterized as vaccine-related. In addition, the person has a neurologic deficit 60 days after the onset of initial symptoms, has died, or has unknown followup status.

All suspected paralytic poliomyelitis cases are reviewed by an external committee and are classified following confirmation by this committee.

See Part C for a description of NNDSS and Appendix A for focus area contact information.



14-30b. Reduce febrile seizures following pertussis vaccines.

National Data Sources

Vaccine Adverse Event Reporting System (VAERS), HRSA, FDA, CDC; Vaccine Safety Datalink (VSD),

CDC, NIP.

State Data Source

Not identified.

Healthy People 2000

Objective

Not applicable.

Measure Number.

Baseline 152 (1998).

Numerator Number of children with febrile seizures (observed or

reported muscular contractions and loss of

consciousness lasting from several minutes to more than 15 minutes and not accompanied by focal neurological signs or symptoms, with these seizures or convulsions associated with fever in children aged 0 to 9 years) that occur within 48 hours after receipt

of a pertussis-containing vaccine.

Denominator Not applicable.

Population Targeted U.S. civilian, noninstitutionalized population.

Questions Used To Obtain the National Data

Not applicable.

Expected Periodicity

Annual.

Comments

In addition to incident cases of febrile seizures caused by pertussis vaccines, CDC monitors the net number of doses of pertussis-containing vaccines distributed by year and by type through the Biologics Survey to verify that reductions are not due to decreases in the number of vaccine doses

Estimates may also be available based on extrapolations from the National Immunization

Survey.

administered.

VAERS reports of febrile seizures are coded using Coding Terms for a Thesaurus of Adverse Reaction

Terms (COSTART). VAERS is a passive

surveillance system.

See Appendix A for focus area contact information.



14-31. Increase the number of persons under active surveillance for vaccine safety via large linked databases.

National Data Source Vaccine Safety Datalink (VSD), CDC, NIP.

State Data Source Vaccine Safety Datalink (VSD), CDC, NIP.

Healthy People 2000

Objective

Not applicable.

Measure Number.

Baseline 6 million persons (1999).

Numerator Number of persons enrolled in all health plans with

large-linked databases in the past year.

Denominator Number of persons.

Population Targeted U.S. civilian, noninstitutionalized population.

Questions Used To Obtain the National

Data

Not applicable.

Expected Periodicity

Not specified.

Comments

Data are collected from computer databases of participating health plans. Quality of health plan databases on vaccinations and medical encounters varies.

See Appendix A for focus area contact information.



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