

Healthy People 2010 Operational Definition

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

Noninstitutionalized high-risk adults aged 18 to 64 years.

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. (See State Operational Definition, below.)
Healthy People 2000 Objective	20.11 (Immunization and Infectious Diseases).
Changes since the 2000 Publication	None.
Measure	Percent (age adjusted-see Comments).
Baseline (Year)	13 (1998)
Target	60
Target-Setting Method	Better than the best racial/ethnic subgroup. For a discussion of target-setting methods, see Part A, section 4.
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 Baseline Data	From the 1998 National Health Interview Survey:

[NUMERATOR:]

- *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.*

[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:]

- *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?

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.

Data (except those by education status) are age adjusted using the age groups 18-44, and 45-64 years. Age-adjusted rates are weighted sums of age-specific rates. For a discussion on age adjustment, see Part A, section 7.

This objective is a modification of Healthy People 2000 objective 20.11, which tracked influenza vaccinations in the past 12 months, as well as pneumococcal vaccinations ever received among persons aged 65 years and older. Objectives 14-29c and 14-20d track influenza vaccinations in the past 12 months and pneumococcal vaccinations ever received among high-risk persons aged 18 to 64 years. The Healthy People 2010 measures are age adjusted; data from objective 20.11 were not age adjusted.

For some measures, data do not meet the criteria for statistical reliability, data quality, or confidentiality and have been suppressed. Information on suppression of data for the major Healthy People 2010 data systems has been published in a *Healthy*

*People Statistical Note.*¹

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

References

1. Klein, R.J.; Proctor, S.E.; Boudreault, M.A.; Turczyn, K.M. Healthy People 2010 Criteria for Data Suppression. *Statistical Notes* No. 24. Hyattsville, MD: National Center for Health Statistics. 2002.

State Operational Definition

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

Noninstitutionalized high-risk adults aged 18 to 64 years.

14-29d. Pneumococcal vaccine.

State Data Source	Behavioral Risk Factor Surveillance System (BRFSS), CDC, NCCDPHP.
National Data Source	National Health Interview Survey (NHIS), CDC, NCHS.
Healthy People 2000 Objective	20.11 (Immunization and Infectious Diseases).
Measure	Percent (age adjusted-see Comments).
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	State-specific civilian, non-institutionalized adult

Questions Used to Obtain the State Baseline Data

population residing in households with telephones (see Comments).

From the 1998 Behavioral Risk Factor Surveillance System:

[NUMERATOR:]

- *Have you EVER had a pneumonia vaccination?*

[DENOMINATOR:]

- (1) *Have you ever been told by a doctor that you have diabetes?*
 - a. *Yes*
 - b. *Yes, but female told only during pregnancy*
 - c. *No*
 - d. *Don't know/Not Sure*
 - e. *Refused*
- (2) *Have you ever been told by a doctor, nurse, or other health professional that you have high blood pressure?*
- (3) *Has a doctor ever told you that you had any of the following?*
 - a. *Heart attack or myocardial infarction*
 - b. *Angina or coronary heart disease*
 - c. *Stroke*

Expected Periodicity

Periodic.

Comments

At baseline, data for this objective were collected using an optional module of the BRFSS, which is made available to States for administration annually. The number of States that select the Immunization module varies every year. In 1998, 13 States excluding The District of Columbia used the optional Immunization module. Since 1998, the question has been added to the BRFSS core. Therefore, recent data have been available from all States and the District of Columbia.

National data from the NHIS and state data from the BRFSS may not be comparable for a number of reasons, including mode of question administration, context of questions, question wording, and survey sampling frame.

A high-risk person is defined as a respondent who answered "yes" to one or more of the conditions listed in questions 2 and 3 above.

Data (except those by education status) are age adjusted using the age groups 18-44, and 45-64 years. Data by education status are age adjusted using the age groups 18-44, and 45-64. Age-adjusted rates are weighted sums of age-specific rates. For a discussion on age adjustment, see Part A, section 7.

For some measures, data do not meet the criteria for statistical reliability, data quality, or confidentiality and have been suppressed. Information on suppression of data for the major Healthy People 2010 data systems has been published in a *Healthy People Statistical Note*.¹

See www.cdc.gov/brfss for a description of BRFSS and Appendix A for focus area contact information.

References

1. Klein, R.J.; Proctor, S.E.; Boudreault, M.A.; Turczyn, K.M. Healthy People 2010 Criteria for Data Suppression. *Statistical Notes* No. 24. Hyattsville, MD: National Center for Health Statistics. 2002.