

Healthy People 2010 Operational Definition

5-13. Increase the proportion of adults with diabetes who have an annual dilated eye examination.

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	17.23 (Diabetes and Chronic Disabling Conditions).
Changes since the 2000 publication	Revised baseline (see Comments). Revised target (see Comments).
Measure	Percent (age adjusted—see Comments).
Baseline (Year)	49 (1998)
Target	76
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 persons aged 18 years and older who report that they have ever been told by a doctor that they have diabetes and report that they had a dilated eye examination in the past year.
Denominator	Number of persons aged 18 years and older who report that they have ever been told by a doctor that they have diabetes.
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 an eye examination in which the pupils were dilated? This would have made you temporarily sensitive to bright light.*

[If yes:]

When was the last time you had this

examination?

- (1) A year ago or less
- (2) More than 1 year but less than 2 years
- (3) More than 2 years but less than 3 years
- (4) More than 3 years but less than 5 years
- (5) Over 5 years ago

[DENOMINATOR:]

[For females:]

- *Other than during pregnancy, have you EVER been told by a doctor or health professional that you have diabetes or sugar diabetes?*

[For males:]

- *Have you EVER been told by a doctor or health professional that you have diabetes or sugar diabetes?*

Yes
No
Borderline
Don't know
Refused

Expected Periodicity Periodic.

Comments

The numerator is limited to only the persons who reported that they have seen a health professional for an eye examination “a year ago or less.”

Persons are considered to have diabetes if they respond “yes” to either of the two questions listed above in the DENOMINATOR section. Those who respond “borderline” are not included. Women who report that the only time they have been diagnosed with diabetes was during pregnancy (gestational diabetes) are also excluded.

The original baseline was revised from 47 percent to 49 percent as the result of a modification of the age groups used for age adjustment. The target was proportionally adjusted from 75 percent to 76 percent to reflect the revised baseline using the original target setting method.

Data (except those by education status) are age adjusted to the 2000 standard population using the age groups 18-44, 45-64, and 65 years and over. Data by education status are age adjusted using the age groups 25-44, 45-64, and 65 and over. Age-adjusted percents are weighted sums of age-specific percents. For a discussion of age

adjustment, see Part A, section 7.

This objective tracks the same measure as Healthy People 2000 objective 17.23; however, the data used to monitor the Healthy People 2000 objective 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

State-level data are available from the BRFSS, which uses a slightly different question than the NHIS to determine the last time the respondent obtained a dilated eye examination. The question from the 1998 Behavioral Risk Factor Surveillance System follows:

- *When was the last time you had an eye examination in which the pupils were dilated? This would have made you temporarily sensitive to bright light.*
 - 1) *Within the past month (0 to 1 month ago)*
 - 2) *Within the past year (1 to 12 months ago)*
 - 3) *Within the past 2 years (1 to 2 years ago)*
 - 4) *2 or more years ago*

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

5-13. Increase the proportion of adults with diabetes who have an annual dilated eye examination.

State Data Source	Behavioral Risk Factor Surveillance System (BRFSS), CDC, NCCDPHP.
National Data Source	National Health Interview Survey (NHIS), CDC, NCHS.
Measure	Percent (age adjusted—see Comments).
Numerator	Number of persons aged 18 years and older who report that they have ever been told by a doctor that they have diabetes and report that they had a dilated eye examination in the past year.
Denominator	Number of persons aged 18 years and older who report that they have ever been diagnosed with diabetes.
Population Targeted	State-specific civilian, non-institutionalized adult population residing in households with telephones (see Comments).
Questions Used To Obtain the State Baseline Data	<p>From the 1998 Behavioral Risk Factor Surveillance System:</p> <p>[NUMERATOR:]</p> <ul style="list-style-type: none">➤ <i>When was the last time you had an eye examination in which the pupils were dilated? This would have made you temporarily sensitive to bright light</i><ul style="list-style-type: none">(1) <i>A year ago or less</i>(2) <i>More than 1 year but less than 2 years</i>(3) <i>More than 2 years but less than 3 years</i>(4) <i>More than 3 years but less than 5 years</i>(5) <i>Over 5 years ago</i> <p>[DENOMINATOR:]</p> <ul style="list-style-type: none">➤ <i>Have you ever been told by a doctor that you have diabetes?</i><ul style="list-style-type: none">YesYes, but female told only during pregnancyNoDon't know/Not sureRefused
Expected Periodicity	Periodic.

Comments

Data for this objective are collected using an optional module of the BRFSS, which is made available to States for administration annually. The number of States that select the Diabetes module varies every year. In 2000, 46 States including D.C. used the optional Diabetes module.

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.

Persons are considered to have diabetes if they respond “yes” to the question “have you ever been told by a doctor that you have diabetes” listed above in the DENOMINATOR section. Women who report that the only time they have been diagnosed with diabetes was during pregnancy (gestational diabetes) are excluded.

Data (except those by education status) are age adjusted to the 2000 standard population using the age groups 18-44, 45-64, and 65 years and over. Data by education status are age adjusted using the age groups 25-44, 45-64, and 65 and over. Age-adjusted percents are weighted sums of age-specific percents. For a discussion of 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.