

## Healthy People 2010 Operational Definition

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### **28-3. Reduce uncorrected visual impairment due to refractive errors.**

<b>National Data Source</b>	National Health and Nutrition Examination Survey (NHANES), CDC, NCHS.
<b>State Data Source</b>	Not identified.
<b>Healthy People 2000 Objective</b>	Not applicable.
<b>Changes since the 2000 Publication</b>	Revised baseline (see Comments). Revised baseline years (see Comments). Revised target (see Comments).
<b>Measure</b>	Rate per 1,000 population (age adjusted – see Comments).
<b>Baseline (Year)</b>	118.0 (1999-2002)
<b>Target</b>	101.1
<b>Target-Setting Method</b>	Better than the best racial/ethnic subgroup.  For a discussion of target-setting methods, see Part A, section 4.
<b>Numerator</b>	Number of persons 12 years and older whose better-eye distance vision tests at 20/30 or worse, and improves to 20/25 or better after objective auto-refraction.
<b>Denominator</b>	Number of persons 12 years and older.
<b>Population Targeted</b>	U.S. civilian, noninstitutionalized population.
<b>Questions Used To Obtain the National Baseline Data</b>	From the 1999-2000 National Health and Nutrition Examination Survey:  <ul style="list-style-type: none"><li>➤ <i>Measure of visual acuity of left and right eyes with usual correction at examination.</i></li><li>➤ <i>Measure of reported visual acuity of left and right eyes after objective auto-refraction.</i></li></ul>
<b>Expected Periodicity</b>	Periodic.
<b>Comments</b>	For survey participants 12 years and older, NHANES measures distance visual acuity,

including the eyeglass or contact lens prescription for persons who use help for distance vision. Visual acuity in a given eye was measured at 20/20, 20/25, 20/30, 20/40, 20/50, 20/60, 20/80, 20/200, or over 20/200.

“Usual correction” includes eyeglasses, contacts, eyeglasses and contacts, or no correction depending on what the sample persons wore (or brought with them) to view distant objects on the day of their visit to the mobile examination center.

Objective refraction to allow the eye to see 20/25 or better is performed on persons whose presenting visual acuity was 20/30 or worse in their better eye.

Data (except those by education status) are age adjusted to the 2000 standard population using the age groups 12-19, 20-39, 40-59, and 60 years and older. Data by education status are adjusted using the age groups 25-39, 40-59, and 60 years and older. Age-adjusted rates are weighted sums of age-specific rates. For a discussion of age adjustment, see Part A, section 7.

This objective moved from developmental to measurable during the Healthy People 2010 Midcourse Review.

The original baseline of 110.7 per 1,000 population was calculated using 2 years of NHANES data (1999-2000). The baseline was revised to 119.0 percent when data for the period 1999-2002 became available. The target of 92.9 per 1,000 population was adjusted to 101.1 to reflect the revised baseline using the original target-setting methodology.

For some objectives, 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*.<sup>1</sup>

See Part C for a discussion of NHANES and Appendix A for focus area contact information.

## References

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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.