Healthy People 2010 Operational Definition

28-18. Reduce the proportion of adults who have elevated hearing thresholds, or audiometric notches, in high frequencies (3, 4, or 6 kHz) in both ears, signifying noise-induced hearing loss.

National Data Source National Health and Nutrition Examination Survey

(NHANES), CDC, NCHS.

State Data Source Not identified.

Healthy People 2000

Objective

Not applicable.

Changes since the

2000 Publication

Revised baseline (see Comments).

Revised baseline years (see Comments).

Revised target (see Comments).

Measure Rate per 1,000 population (age adjusted – see

Comments).

Baseline (Year) 119.0 (1999-2002)

Target 88.1

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 20 to 69 years who have

an audiometric notch in both ears.

Denominator Number of persons aged 20 to 69 years.

Population Targeted U.S. civilian, noninstitutionalized population.

Questions Used To Obtain the National

Baseline Data

Not applicable.

Expected Periodicity Periodic.

Comments An audiometric threshold notch is present when one

or more of the thresholds at 3, 4, or 6 kHz exceeds

the pure-tone average of the 0.5 and1 kHz thresholds by 15 dB or more, and the 8 kHz threshold is at least 5 dB lower (better) than the highest threshold in the 3 to 6 kHz range. Bilateral

(present in both ears) notches are used to signify probable noise-induced hearing loss (NIHL) if there is also a response indicating exposure to loud sounds or noise occupationally or in leisure activities.

The original baseline of 117.0 per 1,000 population was calculated using 2 years of NHANES data (1999-2000). The baseline was revised to 119.00 percent when data for the period 1999-2002 became available. The target of 78.3 per 1,000 population was adjusted to 88.1 to reflect the revised baseline using the original target-setting methodology.

Data (except those for education status) are age adjusted to the 2000 standard population using the age groups 20-39, 40-59, and 60-69. Data by education status are adjusted using the age groups 25-39, 40-59, and 60-69. For a discussion on age adjustment, see Part A, section 7.

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

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.*¹

See Part C for a description of NHANES 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.

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