

Healthy People 2010 Operational Definition

2-9. Reduce the proportion of adults with osteoporosis.

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 target (see Comments).
Measure	Percent (age-adjusted -- see Comments).
Baseline (Year)	12 (1988-94)
Target	10
Target Setting Method	20 percent improvement. For a discussion of target-setting methods, see Part A, section 4.
Numerator	Number of persons aged 50 years and older with a femoral neck bone mineral density (BMD) value \leq 0.56 gm/cm ² .
Denominator	Number of persons aged 50 years and older.
Population Targeted	U.S. civilian, noninstitutionalized population.
Questions Used to Obtain the National Baseline Data	Not applicable.
Expected Periodicity	Periodic.
Comments	Bone mineral densities are determined from measurements made as part of the NHANES battery of examinations. The choice of a femoral BMD of less than 0.56 is the measure 2.5 or more standard deviations below the reference mean for young non-Hispanic white women aged 20 - 29 years from NHANES III. ^{1, 2}

The baseline was revised from 10 percent to 12 percent due to a change in the definition of osteoporosis from a femoral BMD ≤ 0.64 gm/cm² to a femoral neck BMD ≤ 0.56 gm/cm². The target was proportionally adjusted from 8 percent to 10 percent to reflect the revised baseline using the original target-setting method.

Data are age adjusted to the 2000 standard population using age groups 50-59, 60-69, 70-79, and 80 years 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 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*.³

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

References

1. Kanis, J.A.; McCloskey, E.V.; Johansson, H.; Oden, A.; Melton, L.J.; Khaltsev, N. A-reference standard for the description of osteoporosis. *Bone* 42:467-75, 2008.
2. Looker, A.C.; Orwoll, E.S.; Johnston, C.C.; Lindsay, R.; Wahner, H.W.; Dunn, W.L.; Calvo, M.S.; Harris, T.B.; Heyse, S.P. Prevalence and low femoral bone density in older U.S. adults from NHANES III. *Journal of Bone and Mineral Research* 12:1761-8, 1997.
3. 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.