

Healthy People 2010 Operational Definition

15-1. Reduce hospitalizations for nonfatal head injuries.

National Data Source	National Hospital Discharge Survey (NHDS), CDC, NCHS.
State Data Source	State hospital discharge systems.
Healthy People 2000 Objective	Adapted from 9.9 (Unintentional Injuries).
Changes since the 2000 Publication	Revised baseline (see Comments). Revised target (see Comments).
Measure	Rate per 100,000 population (age adjusted—see Comments).
Baseline (Year)	71.7 (1998)
Target	53.6
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 hospitalizations for nonfatal traumatic brain injuries (ICD-9-CM codes 800.0-801.9, 803.0-804.9, 850.0-854.1, 950.1-950.3, 995.55, 959.01 in any of the seven diagnostic fields) among the injury hospital discharge subset (principal diagnosis of ICD-9-CM 800–909.2, 909.4, 909.9, 910.0–994.9, 995.50–995.59, 995.80–995.85).
Denominator	Number of persons.
Population Targeted	U.S. civilian population.
Questions Used To Obtain the National Baseline Data	Not applicable.
Expected Periodicity	Annual.
Comments	See Part A, section 8 for a discussion of the International Classification of Diseases and ICD-9-CM. The original baseline of 60.6 hospitalizations per 100,000 population was revised due to a change in

the measure definition. The original measure captured *all* hospitalizations for principally diagnosed head injuries. However, this measure was out of sync with the internationally-developed and more widely-used measure of head injury hospitalizations, which focuses on hospitalizations for traumatic brain injury. The Healthy People 2010 definition was revised to focus on principally diagnosed traumatic brain injuries (TBI) in order to provide a measure of greater use and relevance to the public health community. The TBI definition is based on the Barell Matrix.¹ TBI types 1, 2, and 3 are included. The definition was revised a second time to match the Healthy People 2020 definition and the State Indicator methodology of any listed traumatic brain injuries (TBI) among the injury subset.

The original baseline, 60.6 hospitalizations per 100,000 population, was revised to 71.7, using the new definition. The target was proportionally adjusted from 45 hospitalizations per 100,000 population to 53.6 to reflect the revised baseline using the original target-setting method.

Data are age-adjusted to the 2000 standard population using the age groups 0-18, 18-44, 45-64, 65-74, and 75 years and over. Age-adjusted rates are the weighted sums of age-specific rates. For a discussion of age adjustment see Part A, section 7.

This objective differs from Healthy People 2000 objective 9.9 in that the data used to monitor objective 9.9 were not age adjusted and the definition was modified from principally diagnosed head injuries to any listed traumatic brain injuries among the injury subset.

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*.²

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

References

1. Barrell, V., Aharonson-Daniel, L, Fingerhut, L.A., et al. An introduction to the Barell body region by nature of injury diagnosis matrix. *Injury Prevention* 8:91-96, 2002. Also see updated (November 2005) version available at: http://www.cdc.gov/nchs/data/ice/final_matrix_post_ice.pdf.
2. 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.