

NHANES Genetic Data Repository Information Sheet

Summary

Genetic variant data available in the NHANES Genetic Data Repository provides an opportunity to conduct a vast array of studies designed to examine the association of health factors and genetic variation. Genetic variants are available for NHANES III Phase II, NHANES 1999-2002, and NHANES 2007-2008. Due to disclosure issues, genetic variant data in the NHANES Genetic Data Repository are not publicly available. Access may be obtained through the NCHS Research Data Center (<http://www.cdc.gov/rdc>). The majority of the genetic variants in the repository are single nucleotide polymorphisms (SNPs). For information about the collection, processing, and access of NHANES DNA specimens, see the NHANES Biospecimen Program Report at http://www.cdc.gov/nchs/data/series/sr_02/sr02_170.pdf.

Eligible sample

All participants aged 12 years and older examined in NHANES III Phase II, who had blood collected for DNA purification, were eligible. All participants aged 20 years and older examined in 1999-2000, 2001-2002, or in 2007-2008, who had blood collected for DNA purification, were eligible.

Survey Sample Weights

Examination weights are appropriate for this subsample.

For further information on the examination weights see the NHANES Analytic Guidelines:

NHANES III <http://www.cdc.gov/nchs/data/nhanes/nhanes3/nh3gui.pdf>

NHANES 1999-2010 http://www.cdc.gov/nchs/nhanes/survey_methods.htm.

However, variants assayed using the Affymetrix Genome-Wide Human SNP Array 6.0 require the use of special weights for analysis. These weights and associated documentation will be available shortly.

Affymetrix Genome-Wide Human SNP Array 6.0

A total of 3,162 participants (non-Hispanic white n = 1,690, non-Hispanic black n = 1,343, Mexican-American, other races & other Hispanic n = 129) from NHANES 1999-2002 were genotyped at Children's Hospital of Philadelphia, Center for Applied Genomics, using the Affymetrix Genome-Wide Human SNP Array 6.0.

Helpful resources:

NHANES Genetic Variant Search: www.nhgeneticvariant.com

NHANES Biospecimen Program Report: http://www.cdc.gov/nchs/data/series/sr_02/sr02_170.pdf

dbSNP: <http://www.ncbi.nlm.nih.gov/SNP/>

SNPedia: <http://snpedia.com/index.php/SNPedia>

HuGE Navigator: <http://www.hugenavigator.net/HuGENavigator/home.do>

NCHS Research Data Center: <http://www.cdc.gov/rdc/index.htm>

Questions: Email NHANESGenetics@cdc.gov

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