

# Weights Documentation for NHANES Genetic Data Repository

## **Survey Sample Weights**

Examination weights are appropriate for NHANES III Phase II, NHANES 1999-2002, and NHANES 2007-2008 genetic 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](http://www.cdc.gov/nchs/nhanes/survey_methods.htm).

## **Affymetrix Genome-Wide Human SNP Array 6.0 Subsample**

### **Subsample Description**

A total of 3,166 participants (non-Hispanic white n = 1,692, non-Hispanic black n = 1,344, Mexican-American, other races & other Hispanic n = 130) from NHANES 1999-2002 genetic subsample were genotyped at Children's Hospital of Philadelphia, Center for Applied Genomics, using the Affymetrix Genome-Wide Human SNP Array 6.0.

### **Weights Description**

#### *Non-Hispanic white and non-Hispanic black*

Separate sample weights were created for the non-Hispanic white and non-Hispanic black participants due to the different proportions of NHANES 1999-2002 included in each subgroup. These nationally representative sample weights can be used to obtain separate estimates for the non-Hispanic white and non-Hispanic black subgroups. The non-Hispanic white and non-Hispanic black subgroups should not be combined in any weighted analysis.

#### *Mexican-American, other races & other Hispanic*

Sample weights were not created for participants in the Mexican-American, other races & other Hispanic subgroup due to the small proportion of NHANES 1999-2002 participants in this Affymetrix subsample. Analyses of data for this other race/ethnic subgroup or this subgroup combined with the non-Hispanic white and/or the non-Hispanic black subgroup should be conducted and interpreted as a convenience sample.

### **Weighting Procedure**

Sample weights were created using SUDAAN's WTADJUST procedure. Nonresponse adjustments to the 4 year MEC weights (WTMEC4YR) were done separately for the non-Hispanic white and non-Hispanic black subgroups using sex and age group categories. The sample weight WTGW4YR should be used for analysis of the non-Hispanic white subgroup and the sample weight WTGB4YR should be used for the non-Hispanic black subgroup.

**Questions:** Email [NHANESGenetics@cdc.gov](mailto:NHANESGenetics@cdc.gov)

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