

# Report: NHANES sample description

## Introduction

The NHANES demographic and blood pressure data were obtained for three waves corresponding to years 2015(CDC 2015), 2016(CDC 2016), and 2017(CDC 2017). Data cleaning and manipulation was performed to retain key demographic and blood pressure data. Demographic data included patient age, gender, ethnicity, education level, marital status, family size, and family income. Blood pressure data included up to four systolic and diastolic blood pressure measurements, a computed average systolic blood pressure value, and stage of hypertension as per clinical cutoffs. The final dataset for analysis excluded observations of individuals with missing average systolic blood pressure measurements, age, or gender data. This report presents a description of the final NHANES data set used for analysis.

## Sample size

Table 1: Number of respondents by wave

Wave	Sample size
2015	7528
2016	7363
2017	6713

## Gender distribution

Table 2: Gender distribution of respondents by wave

Wave	Total	Female		Male	
	n	n	%	n	%
2015	7528	3873	51.4	3655	48.6
2016	7363	3764	51.1	3599	48.9
2017	6713	3424	51.0	3289	49.0

n: Sample size

## Ethnicity distribution

Table 3: Ethnicity distribution of respondents by wave

Wave	White		Black		Mexican		Asian		Other Hispanic		Other Races	
	n	%	n	%	n	%	n	%	n	%	n	%
2015	2878	38.2	1648	21.9	1205	16.0	822	10.9	692	9.2	283	3.8
2016	2325	31.6	1584	21.5	1371	18.6	804	10.9	963	13.1	316	4.3
2017	2244	33.4	1578	23.5	977	14.6	892	13.3	590	8.8	432	6.4

n: Sample size

## Average SBP

Table 4: Summary statistics of average SBP

Wave	Average Systolic Blood Pressure			
	Mean	Median	Minimum	Maximum
2015	118.3	115.3	64.7	228.7
2016	120.4	117.3	74.0	231.3
<b>2017</b>	<b>121.7</b>	<b>118.0</b>	<b>72.7</b>	<b>234.0</b>

- CDC. 2015. "National Health and Nutrition Examination Survey Data." Hyattsville, MD: Department of Health; Human Services, Centers for Disease Control; Prevention.
- . 2016. "National Health and Nutrition Examination Survey Data." Hyattsville, MD: Department of Health; Human Services, Centers for Disease Control; Prevention.
- . 2017. "National Health and Nutrition Examination Survey Data." Hyattsville, MD: Department of Health; Human Services, Centers for Disease Control; Prevention.