

Summary report of the NHANES data set

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Introduction

The National Health and Nutrition Survey is an annual population survey conducted within the US population. The host institution of both the survey and the data is the National Center for Health Statistics of the United States (Centers for Diseases Control and Prevention 2018). The survey habitually collects data on demography and some health indicators like body mass index and blood pressure.

Summary description of the NHANSE data set

Gender

The proportion of females is slightly higher than that of males in each year of the study. The sample size of the study population decreased with year from 2015 to 2017.

Ethnicity

The Whites predominate in the study population with more than a third in each year of the study except for 2016 which was slightly below. Following behind were the Blacks which constituted over 20% of the study population each year (Fig. 1).

Systolic Blood Pressure

The highest average systolic blood pressure was recorded in 2017 (121.7 mmHg), with a standard deviation of 25.5 mmHg. In each year of the study, the median systolic pressure values were slightly lower than the median values.

Conclusion

In summary the sample size were 10175, 9971, 9254 in 2015, 2016 and 2017 respectively (Fig. 1). Further details on gender, ethnicity and systolic blood pressure values can be found in Fig. 1.

Reference

Centers for Diseases Control and Prevention. 2018. "National Health and Nutrition Examination Survey." <https://wwwn.cdc.gov/nchs/nhanes/>.

Table 1: Summary statistics of gender, ethnicity, systolic pressure of the NHANES data set

Variable	Category	2015	2016	2017
Ethnicity	Asian	1074 (10.6)	1042 (10.5)	1168 (12.6)
	Black	2267 (22.3)	2129 (21.4)	2115 (22.9)
	Mexican	1730 (17.0)	1921 (19.3)	1367 (14.8)
	Other_Ethnicity	470 (4.6)	505 (5.1)	634 (6.9)
	Other_Hispanic	960 (9.4)	1308 (13.1)	820 (8.9)
	White	3674 (36.1)	3066 (30.7)	3150 (34.0)
Gender	Female	5172 (50.8)	5079 (50.9)	4697 (50.8)
	Male	5003 (49.2)	4892 (49.1)	4557 (49.2)
	Total	10175 (100.0)	9971 (100.0)	9254 (100.0)
Systolic BP(mmHg)	Max	228.7	231.3	234.0
	Mean	118.3	120.4	121.7
	Median	115.3	117.3	118.0
	Min	64.7	74.0	72.7
	SD	24.4	24.8	25.5

Note: Values are counts (percent) for categorical variables