Blood pressure report

We use data from the Second National Health and Nutrition Examination Survey to study the incidence of high blood pressure.

# Summary of data

As of 25 Sep 2022, the survey data contains 10351 respondents. 47% of respondents are male, and the table shows the breakout by race.

|  |  |
| --- | --- |
| Sex | Percentage |
| White | 88% |
| Black | 10% |
| Other | 2% |

# Logistic regression results

We fit a logistic regression model of high blood pressure on weight, age group, and the interaction between age group and sex.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| highbp | Odds Ratio | Std. Err. | [95% Conf. Interval] | |
| weight | 1.043864 | .0017778 | 1.040385 | 1.047354 |
| agegrp |  |  |  |  |
| 30-39 | 1.514186 | .1585328 | 1.233275 | 1.859082 |
| 40-49 | 1.931504 | .2131303 | 1.55586 | 2.397843 |
| 50-59 | 3.566454 | .3957162 | 2.869402 | 4.432837 |
| 60-69 | 4.249484 | .385805 | 3.556778 | 5.077099 |
| 70+ | 7.077616 | .8911295 | 5.529856 | 9.058582 |
| sex |  |  |  |  |
| Female | .4292923 | .0554164 | .3333292 | .5528826 |
| agegrp#sex |  |  |  |  |
| 30-39#Female | 1.494007 | .2615056 | 1.060135 | 2.105444 |
| 40-49#Female | 2.649714 | .4661947 | 1.876883 | 3.740767 |
| 50-59#Female | 2.863595 | .4966853 | 2.038319 | 4.023008 |
| 60-69#Female | 3.448893 | .5183538 | 2.568904 | 4.630327 |
| 70+#Female | 3.24079 | .6147421 | 2.234536 | 4.700179 |
| \_cons | .0125581 | .001905 | .0093283 | .0169062 |

# Interaction plot

