analysis

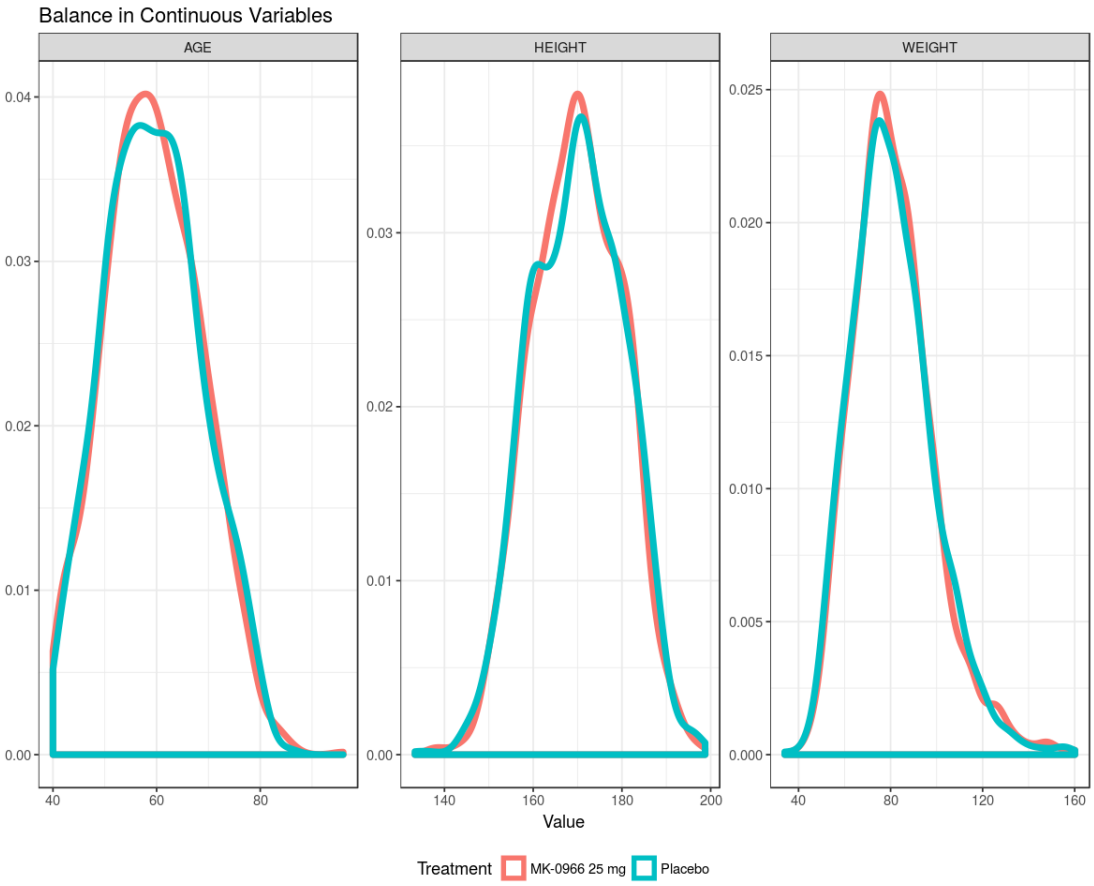
June 11, 2018

1 Example Preliminary Analysis

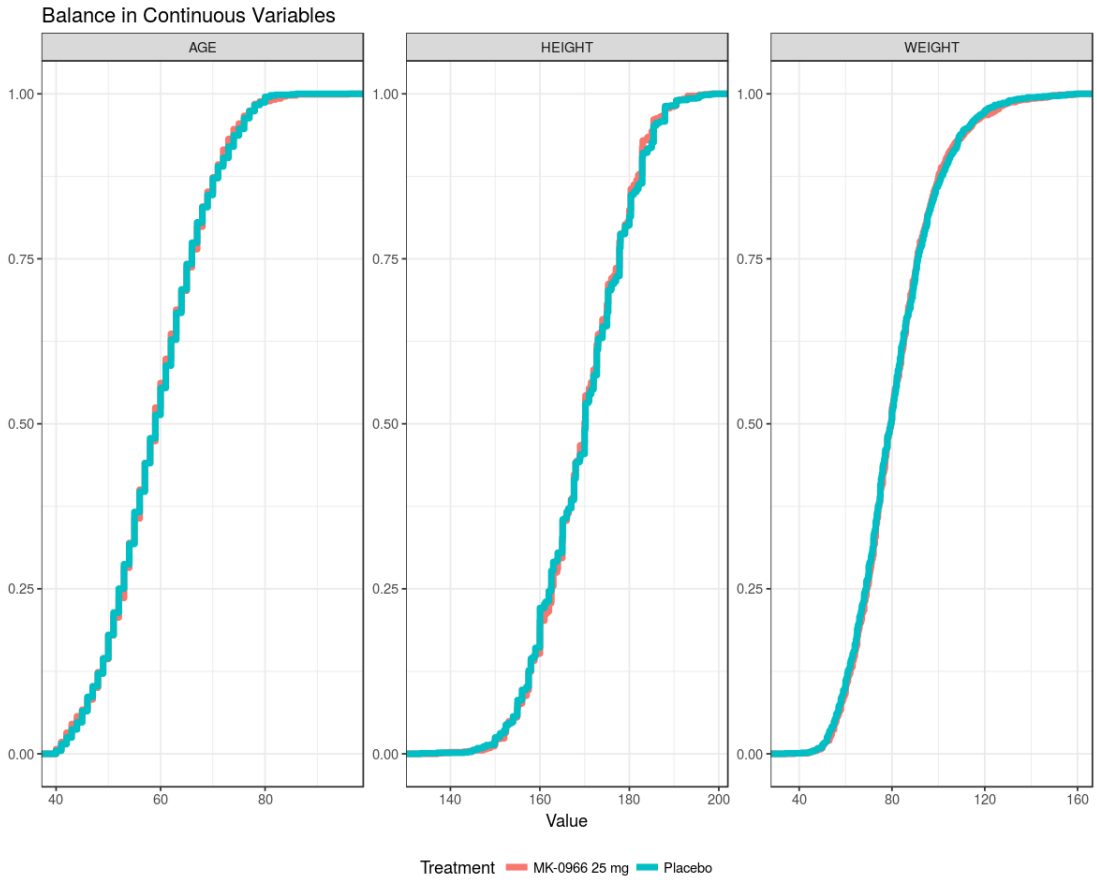
1.1 Data Summaries and Balance in Treatment Arms

In the figure below we show kernel density estimates of the marginal distributions of the age, height, and weight, of the subjects in both the treatment and control arms.

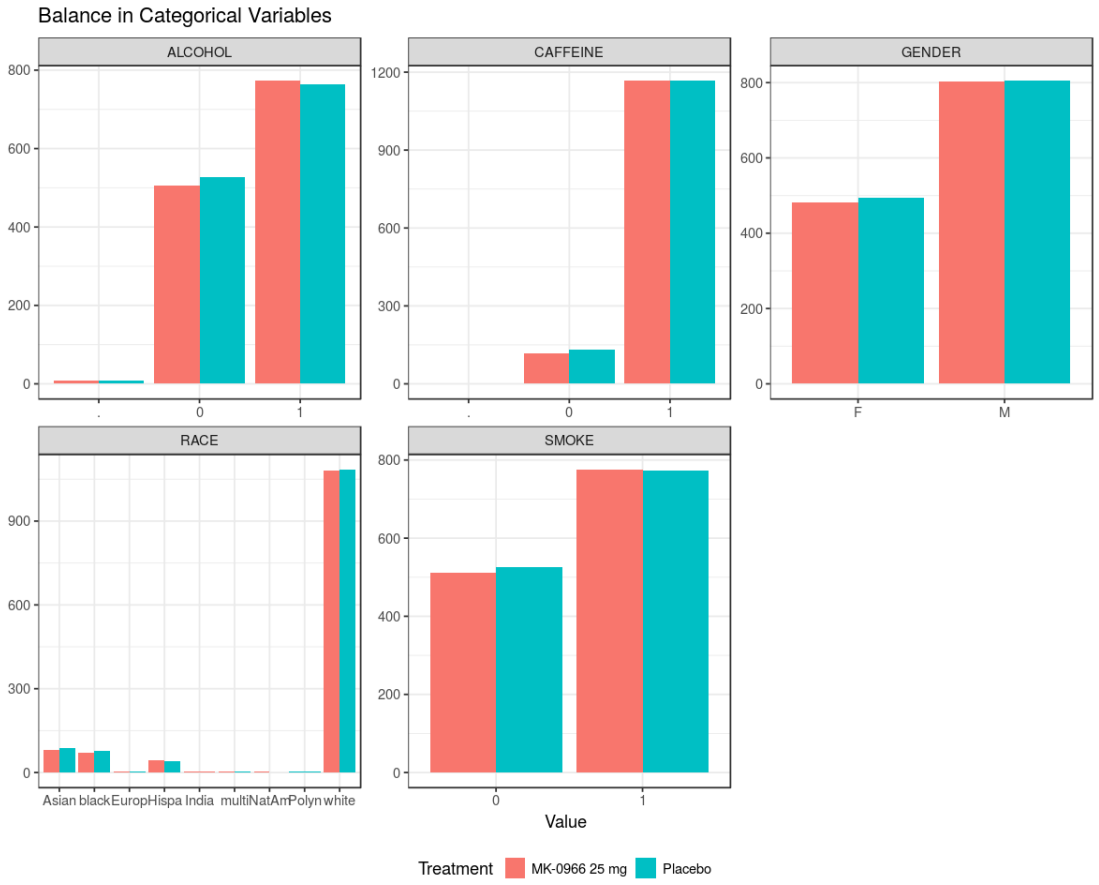
```
Warning message:
"Removed 12 rows containing non-finite values (stat_density)."
```



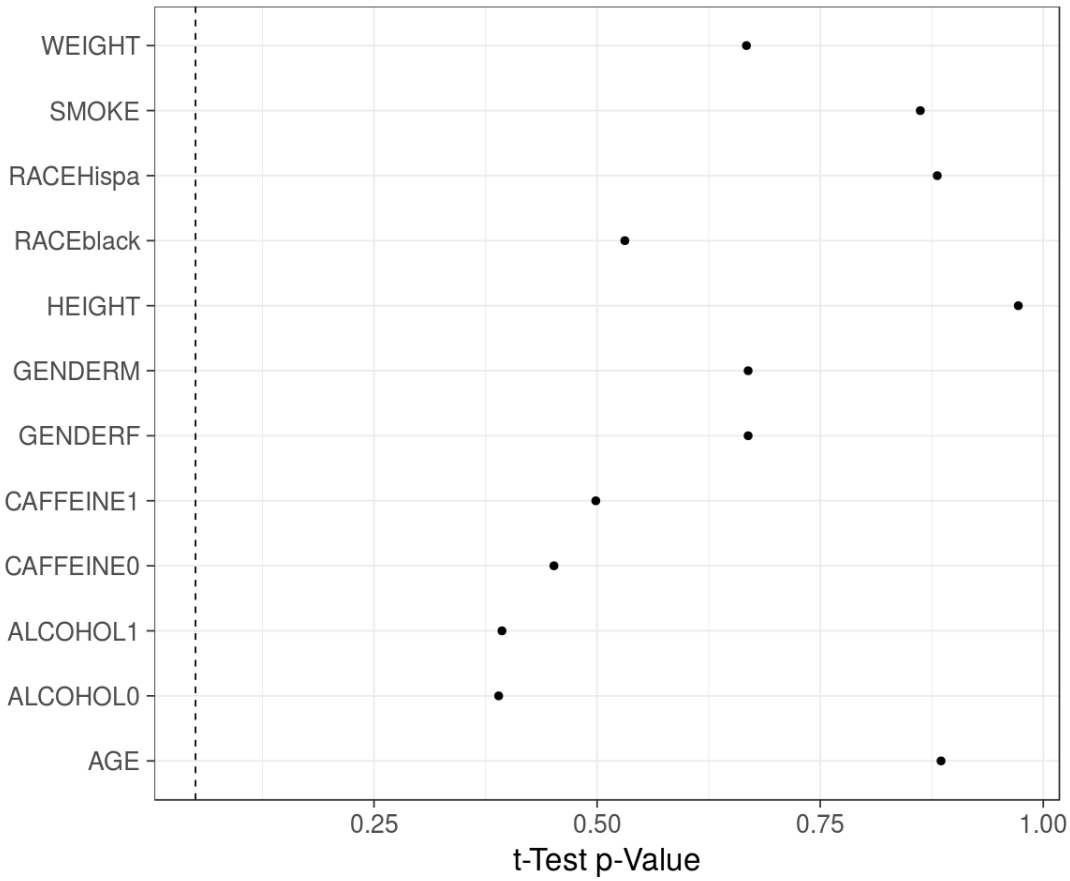
```
Warning message:
"Removed 12 rows containing non-finite values (stat_ecdf)."
```



In the following figure we show the marginal distributions of several categorical variables, including race and gender.



The visual evidence above suggests that the marginal distributions of the treatment and control arms are well balanced. Below we compute a 2-sample t-test p-value for each variable (breaking the categorical variables apart if they have multiple levels). All of the p-values are large, suggesting that the study is indeed well-balanced.


WEIGHT
SMOKE
RACEHispa
RACEblack
HEIGHT
GENDERM
GENDERF
CAFFEINE1
CAFFEINE0
ALCOHOL1
ALCOHOL0
AGE
0.25
0.50
0.75
1.00
t-Test p-Value