**Use nhanes2 data file contained in R package ‘mice’ as the input file for this exercise.**

1. Calculate summary statistics for all variables in nhanes2 by ignoring missing values
2. Check missing data pattern by using visualization tools
3. Check missing mechanism by using visualization tools and statistical testing
4. Check imputation model by using visualization tools and statistical modeling
5. Use mice function for imputing missing values in the data file (generate m=5 imputed data files)
6. After imputation, use Rubin’s rule to estimate the regression coefficient of chl versus hyp, bmi, and age
7. Use propensity score weighting method to create weights for the three variables chl, hyp, and bmi. Estimate the regression coefficient of hyp versis age