**Risk Factors Associated with Low Infant Birth Weight**

**Summary:** The data on 189 births were collected at Baystate Medical Center, Springfield, Mass. during 1986. The dataset contains an indicator of low infant birth weight as a response and several risk factors associated with low birth weight. The actual birth weight is also included in the dataset.

**Data description:** The dataset consists of the following 10 variables:

 *low:* indicator of birth weight less than 2.5kg

 *age:* mother's age in years

 *lwt:* mother's weight in pounds at last menstrual period

 *race:* mothers race ("white", "black", "other")

 *smoke:* smoking status during pregnancy

 *ht:* history of hypertension

 *ui:* presence of uterine irritability

 *ftv:* number of physician visits during the first trimester

 *ptl:* number of previous premature labours

 *bwt:* birth weight in grams

1. Present descriptive statistics of the sample and describe them
2. Provide exploratory bivariate analysis for risk factors of low birth weight
3. Provide a multivariate logistic regression model of risk factors of low birth weight
4. Interpret your findings in bivariate analysis and multivariate analysis