**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( chi square ,correlation and 2way anova)
3. Provide a multivariate logistic regression model of risk factors of low birth weight
4. Interpret your findings in bivariate analysis and multivariate analysis

**Deadline will be on Monday 30/10/2023 and submit your complete work to below Gmail account,**

**osumbaaduke@gmail.com**