

## Introduction

We analysed the birth weight of 189 newborns recorded in the Baystate Medical Center, Springfield, Mass during 1986, and its associations with demographic characteristics of mothers.

## Methods

Data are summarized as mean (SD) and n (%) as appropriate. For comparisons between groups the t-test and chi-square test with Yate's continuity correction were used, for quantitative and categorical variables respectively. All tests were two-sided, and a result was declared statistically significant if  $p < 0.05$ . The analysis was done with the R language (version 4.2.1).

## Results

Birth weights ranged from 709 to 4990 grams, with mean (SD) of 2944.6 (729.2) grams. The histogram of birth weights with overlapped density, shows a bell-shaped and quite symmetrical distribution.

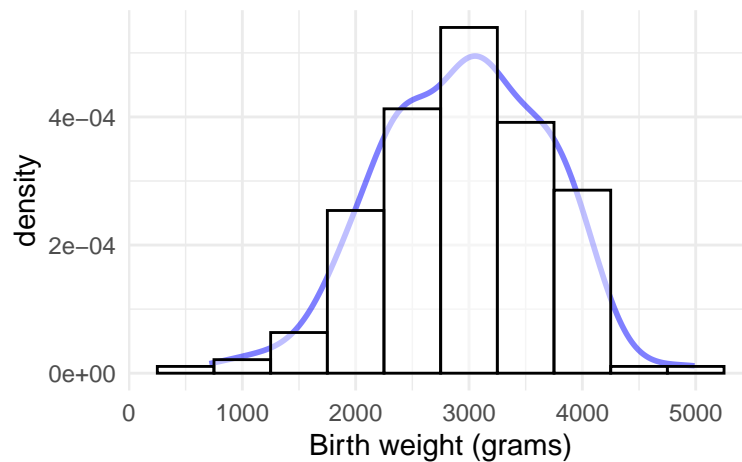


Figure 1: Histogram and density of birth weights

The following figure shows the boxplots of birth weights in smoking and non-smoking mothers. A shift to lower values is apparent in smoking mothers.

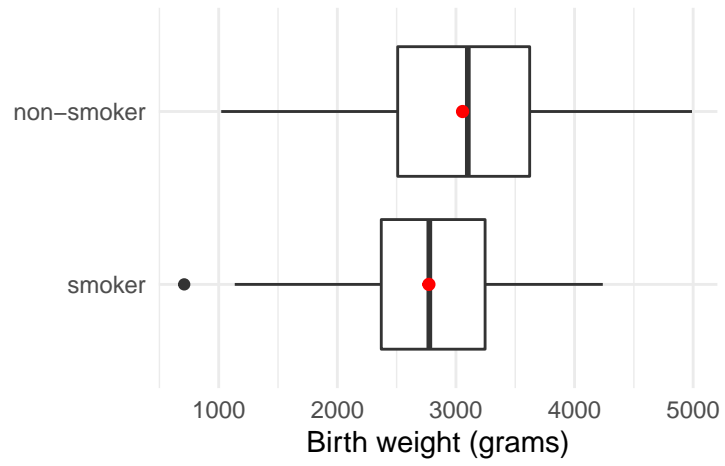


Figure 2: Birth weight according to smoking status of mothers during pregnancy