Maternite

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# births Births in a London Hospital

## Description

Données provenant de 500 singleton births dans un hôpital de Londres.

Usage

data(births)

## Format (Métadonnées)

Un tableau (data frame) de 500 observations concernant les 8 variables suivantes:

|  |  |
| --- | --- |
| variable | signification |
| **id** | Identifiant pour la mère et l'enfant |
| **bweight** | Poids de naissance |
| **lowbw** | Poids inférieur à 2500 g (0 = non, 1 = oui) |
| **gestwks** | Durée de la grossesse (semaines) |
| **preterm** | Durée de gestation inférieure à 37 weeks (0 = non, 1 = oui) |
| **matage** | Age maternel |
| **hyp** | Hypertension gravidique (0 = non, 1 = oui) |
| **sex** | Sexe de l'enfant 1:garçon, 2:fille |

## Source

Anonymous

References Michael Hills and Bianca De Stavola (2002). A Short Introduction to Stata 8 for Biostatistics,[Timberlake Consultants Ltd](http://www.timberlake.co.uk)

library("Epi", lib.loc="/usr/lib/R/site-library")

##   
## Attaching package: 'Epi'  
##   
## The following object is masked from 'package:base':  
##   
## merge.data.frame

data(births)  
summary(births)

## id bweight lowbw gestwks   
## Min. : 1 Min. : 628 Min. :0.00 Min. :24.7   
## 1st Qu.:126 1st Qu.:2862 1st Qu.:0.00 1st Qu.:37.9   
## Median :250 Median :3188 Median :0.00 Median :39.1   
## Mean :250 Mean :3137 Mean :0.12 Mean :38.7   
## 3rd Qu.:375 3rd Qu.:3551 3rd Qu.:0.00 3rd Qu.:40.1   
## Max. :500 Max. :4553 Max. :1.00 Max. :43.2   
## NA's :10   
## preterm matage hyp sex   
## Min. :0.000 Min. :23 Min. :0.000 Min. :1.00   
## 1st Qu.:0.000 1st Qu.:31 1st Qu.:0.000 1st Qu.:1.00   
## Median :0.000 Median :34 Median :0.000 Median :1.00   
## Mean :0.129 Mean :34 Mean :0.144 Mean :1.47   
## 3rd Qu.:0.000 3rd Qu.:37 3rd Qu.:0.000 3rd Qu.:2.00   
## Max. :1.000 Max. :43 Max. :1.000 Max. :2.00   
## NA's :10

str(births)

## 'data.frame': 500 obs. of 8 variables:  
## $ id : num 1 2 3 4 5 6 7 8 9 10 ...  
## $ bweight: num 2974 3270 2620 3751 3200 ...  
## $ lowbw : num 0 0 0 0 0 0 0 0 0 0 ...  
## $ gestwks: num 38.5 NA 38.2 39.8 38.9 ...  
## $ preterm: num 0 NA 0 0 0 0 0 0 0 0 ...  
## $ matage : num 34 30 35 31 33 33 29 37 36 39 ...  
## $ hyp : num 0 0 0 0 1 0 0 0 0 0 ...  
## $ sex : num 2 1 2 1 1 2 2 1 2 1 ...

births$sex <- as.factor(births$sex)  
births$hyp <- as.factor(births$hyp)  
births$preterm <- as.factor(births$preterm)  
births$lowbw <- as.factor(births$lowbw)  
summary(births)

## id bweight lowbw gestwks preterm   
## Min. : 1 Min. : 628 0:440 Min. :24.7 0 :427   
## 1st Qu.:126 1st Qu.:2862 1: 60 1st Qu.:37.9 1 : 63   
## Median :250 Median :3188 Median :39.1 NA's: 10   
## Mean :250 Mean :3137 Mean :38.7   
## 3rd Qu.:375 3rd Qu.:3551 3rd Qu.:40.1   
## Max. :500 Max. :4553 Max. :43.2   
## NA's :10   
## matage hyp sex   
## Min. :23 0:428 1:264   
## 1st Qu.:31 1: 72 2:236   
## Median :34   
## Mean :34   
## 3rd Qu.:37   
## Max. :43   
##

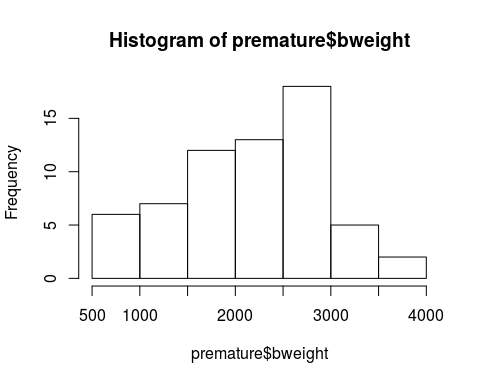
summary(births[births$preterm==0,])

## id bweight lowbw gestwks preterm   
## Min. : 1 Min. :1546 0 :406 Min. :37.0 0 :427   
## 1st Qu.:124 1st Qu.:2980 1 : 21 1st Qu.:38.5 1 : 0   
## Median :250 Median :3282 NA's: 10 Median :39.5 NA's: 10   
## Mean :250 Mean :3281 Mean :39.4   
## 3rd Qu.:377 3rd Qu.:3582 3rd Qu.:40.2   
## Max. :500 Max. :4553 Max. :43.2   
## NA's :10 NA's :10 NA's :10   
## matage hyp sex   
## Min. :23.0 0 :375 1 :225   
## 1st Qu.:32.0 1 : 52 2 :202   
## Median :34.0 NA's: 10 NA's: 10   
## Mean :34.1   
## 3rd Qu.:37.0   
## Max. :43.0   
## NA's :10

summary(births[births$preterm==1,])

## id bweight lowbw gestwks preterm   
## Min. : 22 Min. : 628 0 :25 Min. :24.7 0 : 0   
## 1st Qu.:166 1st Qu.:1606 1 :38 1st Qu.:32.7 1 :63   
## Median :240 Median :2404 NA's:10 Median :35.1 NA's:10   
## Mean :255 Mean :2169 Mean :34.2   
## 3rd Qu.:360 3rd Qu.:2684 3rd Qu.:36.3   
## Max. :479 Max. :3606 Max. :37.0   
## NA's :10 NA's :10 NA's :10   
## matage hyp sex   
## Min. :24.0 0 :44 1 :31   
## 1st Qu.:31.0 1 :19 2 :32   
## Median :34.0 NA's:10 NA's:10   
## Mean :33.9   
## 3rd Qu.:37.0   
## Max. :41.0   
## NA's :10

premature <- births[births$preterm==1,]  
aterme <- births[births$preterm==0,]  
hist(premature$bweight)



hist(aterme$bweight)

