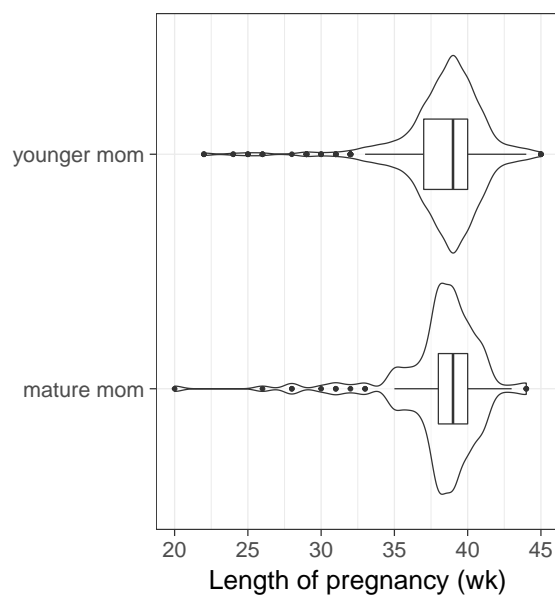
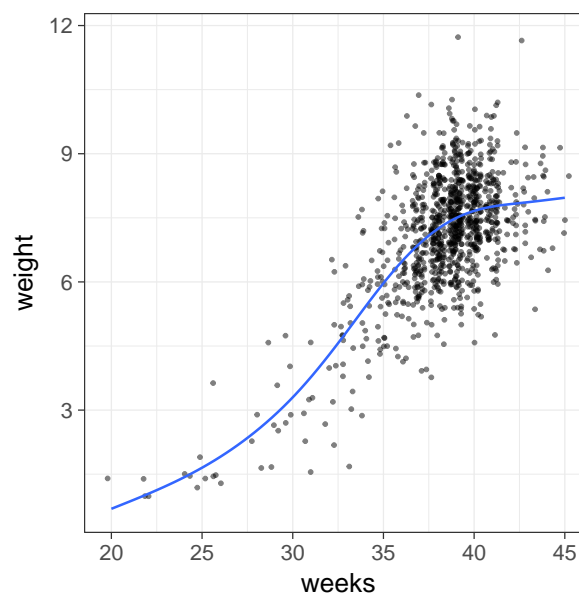


Appendix of R code and graphics



Summary statistics for `weeks` by `mature` group.



```
tapply(ncbirths$weeks, ncbirths$mature, FUN=summary)
```

```
## $`mature mom`
##   Min. 1st Qu.  Median    Mean 3rd Qu.    Max.   NA's
##  20.00  38.00   39.00   38.02  40.00   44.00     1
##
## $`younger mom`
##   Min. 1st Qu.  Median    Mean 3rd Qu.    Max.   NA's
##  22.00  37.00   39.00   38.38  40.00   45.00     1
```

Frequency table of `mature`

```
table(ncbirths$mature)
```

```
##
##  mature mom  younger mom
##       133       867
```

Correlation between `weight` and `weeks`.

```
cor(ncbirths$weight, ncbirths$weeks, use="pairwise.complete.obs")
```

```
## [1] 0.6701013
```

Frequency table of `habit`

```
table(ncbirths$habit)

##
## nonsmoker    smoker
##      873      126
```

Two-way table of `mature` against `habit`.

```
addmargins(table(ncbirths$mature, ncbirths$habit))

##
##              nonsmoker smoker Sum
## mature mom           121     11 132
## younger mom          752    115 867
## Sum                   873    126 999

round(prop.table(table(ncbirths$mature, ncbirths$habit)),3) #cell %'s

##
##              nonsmoker smoker
## mature mom           0.121  0.011
## younger mom          0.753  0.115

round(prop.table(table(ncbirths$mature, ncbirths$habit), margin=1),3) # row %'s

##
##              nonsmoker smoker
## mature mom           0.917  0.083
## younger mom          0.867  0.133

round(prop.table(table(ncbirths$mature, ncbirths$habit), margin=2),3) # column %'s

##
##              nonsmoker smoker
## mature mom           0.139  0.087
## younger mom          0.861  0.913
```