Dataset and variables

A dataset with 711 from German health registry for the years 1984-1988. Health information for years prior to health reform. (dataset: rwm.csv). This dataset is a subset of the rwm dataset in the package COUNT in R.

The dataset consists of the following 4 variables:

`docvis`: number of visits to doctor during year

`age`: age: 25-64

`educ`: years of formal education

`hhninc`: household yearly income in DM/1000)

Questions

1) Run a Poisson model examining whether the number of doctor visits during year is associated with patient's age. Interpret the results.
2) Check for overdispersion and if it's detected, run the appropriate model that accounts for overdispersion. Interpret the results.
3) Check model #2 for zero-inflation.
4) Compare models #1 and #2.
5) Using the best model found in #4 run a multivariable model including all the variables in the dataset. Interpret the results.