

Disclaimer

Note that this is **not** an actual exam exercise. We only use this in the video about ASTA exams found under the vidcasts tab on the ASTA webpage.

Fake exam set for video

In this exercise you have to study a dataset concerning the cholesterol level of women in two American states. Data is obtained from <http://www.statlab.uni-heidelberg.de/data/ancova/cholesterol.story.html>.

In the dataset we have three variables: The cholesterol level (**cholesterol**), age (**age**) and home state (**state**) of each person.

Carry out an analysis investigating the effect of age and home state on a persons cholesterol level. In that connection you should:

- Make relevant plot(s).
- Investigate whether there is a significant interaction between the effects of **age** and **state**.
- Investigate if **state** or **age** have a significant impact on **cholesterol**.