**Case Study:** [**Consideration of Future Consequences Scale**](http://openpsychometrics.org/tests/CFCS.php)

The data is given in the file CFCS.csv.

Consider the dataset CFCS which gives the answers of 15035 individuals to questions in the “[Consideration of Future Consequences Scale](http://openpsychometrics.org/tests/CFCS.php)” questionnaire. The codebook that accompanies the data is given on the next page.

Clean the data by taking the following into account:

* Check the data for any responses that are not within the range of the possible values and delete all the data for that respondent.
* Delete records where any of the answers to Q1 to Q12 was 0.
* Remove all respondents who indicated an accuracy < 60.
* Assume that the oldest respondent was 87 years old.
* Delete records with responses that are missing. A missing response is when no answer was given.
* To check your work, the size of the dataset after deletion of these cases should be 13861. Use only this data further on.

**Instrument Title: Considerations of Future Consequences (CFC Scale)**

Instrument Author: Strathman, A., Gleicher, F., Boninger, D. S., &

Edwards, C. S

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Instrument Database for the Social Science.

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**CODEBOOK**

The following items were rated on a likert scale where 1=extremely uncharacteristic, 2=somewhat uncharacteristic, 3=uncertain, 4=somewhat characteristic, 5=extremely characteristic (0=no answer chosen).

Q1. I consider how things might be in the future, and try to influence those things with my day to day behaviour.

Q2. Often I engage in a particular behaviour in order to achieve outcomes that may not result for many years.

Q3. I only act to satisfy immediate concerns, figuring the future will take care of itself.

Q4. My behaviour is only influenced by the immediate (i.e., a matter of days or weeks) outcomes of my actions.

Q5. My convenience is a big factor in the decisions I make or the actions I take.

Q6. I am willing to sacrifice my immediate happiness or well-being in order to achieve future outcomes.

Q7. I think it is important to take warnings about negative outcomes seriously even if the negative outcome will not occur for many years.

Q8. I think it is more important to perform behaviour with important distant consequences than behaviour with less-important immediate consequences.

Q9. I generally ignore warnings about possible future problems because I think the problems will be resolved before they reach crisis level.

Q10. I think that sacrificing now is usually unnecessary since future outcomes can be dealt with at a later time.

Q11. I only act to satisfy immediate concerns, figuring that I will take care of future problems that may occur at a later date.

Q12. Since my day to day work has specific outcomes, it is more important to me than behaviour that has distant outcomes.

The following three variables were also entered:

age: entered as text (ages < 13 removed)

gender: chosen from drop down list (1=male, 2=female, 3=other).

accuracy: entered as text, prompt: "Please estimate how accurate your answers were about yourself on a scale of 0-100, where 100 means completely accurate (you had no doubts about any of your answers) and 0 means you answered the items randomly. If you do not want your answers used for research, enter 0." <= 0 removed.

The following value was calculated from technical information

country: ISO country code, calculated with MaxMind GeoIPLite.