Applied Epidemiology I: Data Management

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Acknowledgements

This course material in data management is based on my learning from Anna Johansson's workshop at KI library 1 , teachings in Good Data Management Practice in Epidemiological Research, and MEB Guidelines for Documentation and Archiving Version 6 2 . I personally want to thank for their effort on education in data management.

I especially want to thank Marlene Stratmann for reviewing the slides and Prof. Paul Dickman for providing me with suggestions to improving the teaching.

¹This workshop is currently available on KI Play as well.

²The Department of Medical Epidemiology and Biostatistics, Karolinska Institutet. MEB Guidelines for Documentation and Archiving Version 6. 2018.

Outline

- What if no data management?
- 2 Aims of data management (also learning outcomes)
- 3 Good folder structure
- 4 Good documents
- 6 Good Readme.txt
- 6 Good habits on coding
- **7** Other do's and don'ts
- Wrap it up

In the beginning,



On the half-way of the research,



At the end, or saying you cannot even walk till the end?



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- if your classmate asks you to teach her how to write a certain Stata code, you remember you've done it before, but where did you put it?
- if your collaborator needs to take over your analysis, can he/she understand what you've completed?



So I would say you need to have a friend called

Data Management

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- To create a good work flow and enhance accuracy of work

Good folder structure

The core elements of folders are listed below:

- Data
- Documents
- Log
- Output
- Program

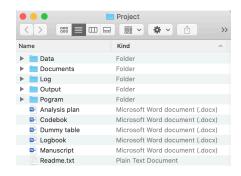


Figure: Good project folder structure. (Please bear with me that I am Mac user!)

Good documents

Besides good folder structure, you should also consider keeping good documents

- Analysis plan
- Codebook³
- Dummy table
- Logbook³
- Manuscript

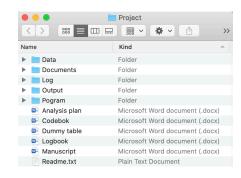


Figure: Good project folder structure.

³can be included in analysis plan as well

Good Readme.txt

- You should illustrate how to use these documents/folders in the Readme.txt.
- A good Readme.txt is a good tourist guide in this project folder.

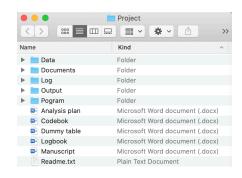


Figure: Good project folder structure.

Good habit on coding

- log on
- Filename
- Study
- Created
- Updated
- Purpose
- Note
- Program
- log close

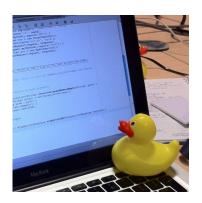
```
// End of Stata code
```

// Start of Stata code

log close

Good habit on coding

- Talk to yourself what you are doing.
- You've got a friend in me! (Parallel analysis)
- Rubber duck debugging



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- 5. Don't edit the data directly. Please write syntax.

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 - 2. documents
 - 3. readme
 - 4. habits

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- How can this lecture help you?
- The templates you can use for DM your current and future projects.