# Working Title:

**Practical tips for improving your Data Management**

What is your data? What does research data management mean to you? International publishers and funders are now mandating for best practice in data planning, description, storage, and sharing. It’s increasingly important to understand what you are expected to do with your data, and how to manage it appropriately and responsibly. This half-hour presentation will cover general best-practice principles of management, storage, and sharing of research data. It will include practical tips on how to implement data management best-practices in your research. After attending, you should feel better prepared to respond to university, employer, funder and/or publisher data requirements.

# Learning Objectives:

Students will be able to:

1. Think critically about best practice in the management, storage and sharing of research data, relating it to their discipline and research practices.
2. Respond to requests to share data having increased knowledge of repositories and metadata.
3. Plan for long-term preservation of data.
4. Apply tidy data principles to both digital and physical data.
5. Examine their current practices against F.A.I.R. data principles.
6. Think critically about data security and ownership including issues around data sovereignty and deidentification of sensitive data.

# Resources Required:

PowerPoint Presentation

Whiteboard markers

Internet and projector connected Laptop (if a tutor machine is not available)

Tidy data beyond the dataset handout

Post it notes (two different colours)

# Lesson Outline:

If timing is tight, F.A.I.R. section is optional.

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| Activity | Time Guideline |
| Introduction:  Greet students and introduce presenters | 1m |
| First Activity: **Scene setting**   1. What is your research data? Quick audit of types of data represented in the group attending. 2. What does Research Data Management mean (or look like) to you?   **Peer-share: student to discuss with a partner the question of what they think Research Data Management means.** | 4m |
| Second Activity: **Tidy data**  Go through the handout numbers 1-5 and explain the basic foundations of good management of working data. | 5m |
| Third Activity: **Metadata:**  Talk to concepts on PPT slide:  -Subject specific vs bibliometric  -Basic metadata vs a specific schema | 5m |
| Fourth Activity: **Data Management Planning:**  Hand out PDF version of Otago’s and take to concepts on PPT | 5m |
| Fifth Activity: **Repositories:**  Talk to concepts on PPT slide  **Quick look at:**  **Figshare**  <https://figshare.com/articles/Parents_with_mental_health_problems_and_their_children_in_a_German_population_based_sample_Results_of_the_BELLA_study/5169391> | 5m |
| Fifth Activity: Go FAIR and CARE  Talk to concepts on PPT slides. Introduce the concept of FAIR data and CARE for indigenous data. | 2m |
| Sixth Activity: View video <https://youtu.be/66oNv_DJuPc> | 5m |
| Conclusion:  Finish with some seed questions (final slide) and general discussion | 15m |

# Evaluation:

Using post its – carpentries style – one positive and one improvement.

# Key Readings:

Managing and sharing research data: A guide to good practice by Corti, Van den Eynden, Bishop, and Woollard – BOOK <https://otago.hosted.exlibrisgroup.com/primo-explore/fulldisplay?docid=OTAGO_ALMA21174009620001891&context=L&vid=DUNEDIN&search_scope=All&tab=default_tab&lang=en_US>