Plan Overview

A Data Management Plan created using DMPonline

Title: Enhancing Medical Student Confidence in Paediatric Emergency Care through Simulation-Based Learning.

Creator: Bethany Turner

Principal Investigator: Bethany Turner

Data Manager: Bethany Turner

Project Administrator: Bethany Turner

Affiliation: The University of Sheffield

Template: Postgraduate Research DMP (The University of Sheffield)

Project abstract:

Simulation-based learning is a proven and effective method in medical education, particularly in enhancing students' confidence and competence in managing emergency clinical situations. Despite the growing recognition of its benefits, there is currently no structured simulation programme for medical students at Barnsley Hospital. Establishing such a programme could provide students with invaluable hands-on experience in managing acute paediatric emergencies, thereby bridging the gap between theoretical knowledge and practical application in a safe, controlled environment.

ID: 166018

Start date: 08-01-2025

End date: 02-04-2025

Last modified: 03-01-2025

Enhancing Medical Student Confidence in Paediatric Emergency Care through Simulation-Based Learning.

Defining your data

- What digital data (and physical data if applicable) will you collect or create during the project?
- How will the data be collected or created, and over what time period?
- What formats will your digital data be in? (E.g. .docx, .txt, .jpeg)
- Approximately how much digital data (in GB, MB, etc) will be generated during the project?
- Are you using pre-existing datasets? Give details if possible, including conditions of use.

What digital data (and physical data if applicable) will you collect or create during the project?
Quantitative data in the form of Likert scales will be collected from the answers of two surveys, and qualitative data collected from the answers of one survey.
How will the data be collected or created, and over what time period?
Data will be collected by using google forms using a secure account between 8th January and 2nd April.
Are you using pre-existing datasets? Give details if possible, including conditions of use.
N/A - There are no pre-existing datasets.

Looking after data during your research

- Where will you store digital data during the project to ensure it is secure and backed up regularly? ([University research storage](#))
- How will you name and organise your data files? (An example filename can help to illustrate this)
- If you collect or create physical data, where will you store these securely?
- How will you make data easier to understand and use? (E.g. include file structure and methodology in a README file)
- Will you use extra security precautions for any of your digital or physical data? (E.g. for sensitive and/or personal data)

Where will you store digital data during the project to ensure it is secure and backed up regularly?
I will store digital data on Google Forms (via University of Sheffield account) to ensure that it is secure.
It will be stored on an encrypted and password protected laptop to ensure additional security.

How will you name and organise your data files?
All pre-event and post-event survey answers will be downloaded after all the sessions have been completed. They will be labelled 'pre-event survey answers' and 'post-event survey answers'. They will be stored in a combined file named 'Questionnaire responses'.
They will be saved on an encrypted and password protected laptop to ensure additional security.

If you collect or create physical data, where will you store these securely?
N/A - there will be no physical data.

Will you use extra security precautions for any of your digital or physical data?
There is no personal or sensitive data being collected. All data will be anonymous. The data will be stored on an encrypted and password protected laptop to ensure additional security.

Storing data after your research

- Which parts of your data will be stored on a long-term basis after the end of the project?
- Where will the data be stored after the project? (E.g. University of Sheffield repository[ORDA](#), or a subject-specific repository)
- How long will the data be stored for? (E.g. standard TUoS retention period of minimum 10 years after the project)
- Who will place the data in a repository or other long-term storage? (E.g. you, or your supervisor)
- If you plan to use long-term data storage other than a repository, who will be responsible for the data?

Once data is collected, analysed and interpreted, it will not be stored by myself on a long term basis. The google form will be deleted on the 2nd April 2025 (project end date).
There will be PDFs of individual responses and summary of responses from both pre-event and post-event questionnaires. This will show the questions used in both questionnaires to aid in reproducibility for anyone wanting to replicate this project. These will be stored with University of Sheffield repository ORDA for 10 years.
There is no foreseen financial costs for long term data storage.

Sharing data after your research

- How will you make data available outside of the research group after the project? (E.g. openly available through a repository, or on request through your department)
- Will you make all of your data available, or are there reasons you can't do this? (E.g. personal data, commercial or legal restrictions, very large datasets)
- If there are reasons you can't share all of your data, how might you make as much of it available as possible? (E.g. anonymisation, participant consent, sharing analysed data only)
- How will you make your data as widely accessible as possible? (E.g. include a data availability statement in publications, ensure published data has a DOI)
- What licence will you apply to your data to say how it can be reused and shared? (E.g. one of the [Creative Commons](#) licences)

How will you make data available outside of the research group after the project?
Data analysis will be available outside of the research group after the project, it will be openly available via the repository.
Will you make all of your data available, or are there reasons you can't do this?
Yes, all data will be anonymised so all data will be available. The initial question of the questionnaire is consenting to the form. If consent is not given, the questionnaire ends immediately, so no data will be available if consent is not given.
Will there be any delay before making data available?

No, once all data has been collected and analysed (by 2nd April 2025) it will be made available via repository.

Putting your plan into practice

- Who is responsible for making sure your data management plan is followed? (E.g. you with the support of your supervisor)
- How often will your data management plan be reviewed and updated? (E.g. yearly and if the project changes)
- Are there any actions you need to take in order to put your data management plan into practice? (E.g. requesting [University research storage](#) via your supervisor.)

Who will be responsible for data management in the project?
I will be responsible for data management in the project.
Do you require any extra resources to put your data management plan into practice? Will this incur any financial costs?
I do not require any extra resources to put my data management plan into practice. There will not be any additional financial cost.