
Plan Overview

A Data Management Plan created using DMPonline

Title: Cardiovascular REsolution of INflammation to promote HEALTH (CARE-IN-HEALTH)-simp2024017

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Project abstract:

Chronic inflammation is a critical residual risk for the transition from health to cardiovascular disease (CVD) but with limited opportunities to stop without immunosuppression. The goal is to identify the resolution of inflammation and develop new preventive strategies against the chronic inflammation that drives CVD. An individual's critical immune pathways will be identified and validated with machine learning to provide new tools for a personalized plan towards resolution of inflammation.

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Cardiovascular RESolution of INflammation to promote HEALTH (CARE-IN-HEALTH)-simp2024017

Description of data

How will data be collected, created or reused?

Data in this project has been received from SIMPLER, Swedish Infrastructure for Medical Population-based and Environmental Research, who is responsible for the data collection. SIMPLER consist of questionnaire data on health, diet and lifestyle and data from clinical examinations from participants in the Swedish Mammography Cohort, SMC, and the Cohort of Swedish Men, COSM. There is also linked register information.

What types of data will be created and/or collected, in terms of data format? Include version numbers if applicable.

This project contains following data from SIMPLER: questionnaire data, clinical data, protein profile, metabolome profile, genome profile, and linked register information.

What volumes of data will be created and/or collected?

- < 100 GB

Documentation and data quality

How will the material be documented and described, with associated metadata relating to structure, standards and format for descriptions of the content, collection method, file naming-format-versioning, etc

Question not answered.

How will data quality be safeguarded and documented (for example repeated measurements, validation of data input, etc.)?

Question not answered.

Storage and backup

How is storage and backup of data and metadata safeguarded during the research process?

- Other, please specify

All SIMPLER data including the project is processed, stored and backed up through SNIC, Swedish National Infrastructure for Computing, in special servers for sensitive personal information, Bianca (processing server) and Castor (storage and backup). The servers are managed by Uppsala University and UPPMAX, Uppsala Multidisciplinary Center for Advanced Computational Science being a part of SNIC.

How is data security and controlled access to data safeguarded, in relation to the handling of sensitive data and personal data, for example?

all data from SIMPLER will be received and processed in Bianca. No data are allowed to be downloaded or processed outside this technical solution. Only results and tables/graphs may be downloaded and stored/edited on an external unit such as a laptop or hard drive.

Legal and ethical aspects

How is data handling according to legal requirements safeguarded, e.g. in terms of handling of personal data, confidentiality and intellectual property rights?

For user outside of Uppsala University, legal issues are regulated in the project's data processing agreement (DPA) between the user university and SIMPLER. All users must agree that all processing of data must be performed at the server Bianca and data is not allowed to be downloaded from Bianca to an external unit, only results may be downloaded.

How is correct data handling according to ethical aspects safeguarded?

SIMPLER demands an ethical approval before data is delivered to the project. Data is pseudonymized and only SIMPLER's director and SIMPLER's data manager have access to the key. Project members don't have access to the key.

Accessibility and long-term storage

How, when and where will research data or information about data (metadata) be made

accessible? Are there any conditions, embargoes, licenses and limitations on the access to and reuse of data?

Project members are granted access to the data in Bianca and Castor by SIMPLER as long as the project is active. In Bianca and Castor the project has a project-specific folder only accessed by project members, SIMPLER's data manager and UPPMAX support officer responsible for SIMPLER users. SIMPLER's data manager compile a data set according to the project's application to SIMPLER (hypotheses, variables etc), and post the data set in this folder. The processing of data must follow the route as given to SIMPLER. All changes in project plan and/or hypothesis or re-use of data must be communicated to and approved by SIMPLER. If a project pays for chemical or other analysis the project has one year exclusive use of the results. Other than that there is no embargo.

In what way is long-term storage safeguarded, and by whom? How will the selection of data for long-term storage be made?

Question not answered.

Will specific systems, software, code or other types of services be necessary in order to open and use/analyse data in the long term?

Question not answered.

How will unique and persistent identifiers for the research data, such as a Digital Object Identifier (DOI), be obtained?

Question not answered.

Responsibility and resources

Who is responsible for data management while the research project is in progress?

SIMPLER is responsible for managing the database and of compiling correct data sets to their users. The project is responsible for data management within the project after the data set has been transferred to Bianca. The project is responsible for preparing data for archiving, and SIMPLER for providing long-term storage.

Who is responsible for data management, long-term storage after the research project has ended?

Long-term storage follows the Swedish archives act (Arkivlagen) and finished projects are archived in the archive of Uppsala University.

What resources (costs, labour or other) will be required for data management (including storage, back-up, provision of access and processing for long-term storage)?

SIMPLER is responsible for providing long-term storage.

What resources will be needed to ensure that data fulfil the FAIR principles?

In first place it is SIMPLER who ensure that data fulfil the FAIR principles, if the project has fulfilled its part. In case funding for SIMPLER is lacking, Uppsala University as host for SIMPLER has the responsibility.