Plan Overview

A Data Management Plan created using DMPonline

Title: CArdiovascularREsolution of INflammation to promote HEALTH (CARE-IN-HEALTH)

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Principal Investigator: Susanna Larsson

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Template: KIs Template for Swedish Research Council DMP

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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Description of data

How will data be collected, created or reused?

We applied to get access to SCAPIS cohort data and we granted access.
https://www.scapis.org/

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

The SCAPIS cohort contains Imputed Genotype data, Proteomics, Clinical, Metabolic NMR and Core questionnaire data of more than 30,000 participants in Imputed genotype data, and also .csv and .RData format.

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

- < 1 TB

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

Data is already documented and described by SCAPIS cohort.

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

Data was already quality-checked by SCAPIS cohort.

Storage and backup

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

- Other, please specify

The SCAPIS data will be stored in Bianca/UPPMAX and data analysis will be performed in Bianca as it is designed for storage and analysis of sensitive data.

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

The SCAPIS data will be stored in Bianca/UPPMAX and data analysis will be performed in Bianca as it is designed for storage and analysis of sensitive data.

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?

We granted ethical permission for getting access and analysis of SCAPIS data with the record number from ethical approval 2023-06084-01

How is correct data handling according to ethical aspects safeguarded?

- Patient data is pseudonymized by the clinical collaborator and the code is not accessible to researchers in our research group. The material will arrive to KI coded, and the original code will be saved by the collaborators.
- The code key for pseudonymized data is kept by the holders of the original registers, i.e., by the Swedish National Board of Health and Welfare (https://www.socialstyrelsen.se/), Statistics Sweden (https://www.scb.se/), and Region Stockholm (https://www.sll.se/) and not available to us at any time.
- Ethical approvals/amendments and informed consent forms for the project are registered in the diary.

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?

- Analysis scripts and other developed code will be uploaded to Github.

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

The SCAPIS data will be stored in Bianca/UPPMAX and will be destroyed after 5 publications.

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

- The data can be read by any software compatible with .csv files

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

The patients data belongs to SCAPIS organization and there is unique and persistent identifier.

Responsibility and resources

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

- Data management is performed by a dedicated data manager in the research group, who is an experienced researcher with a PhD (Payam Haftbaradaran Esfahani)

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

- The PI is responsible for data management and the archive function will be responsible for long-term storage (Susanna Larsson)

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)?

Access to Bianca / UPPMAX

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

- No particular additional resources will be required.