EXPERIENCE SAMPLING – THE NEXT BIG THING IN DIETARY ASSESSMENT?

A Data Management Plan created using DMPonline.be

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Template: KU Leuven BOF-IOF

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Project Administrator: Christophe Matthys, First Name Surname

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Project abstract:

In onderzoek is het meten van voedingsinname het vertrekpunt voor voedings- en gezondheidsonderzoek. Terwijl in de klinische setting dit de basis vormt voor voedingsadvies bij preventie en behandeling van aandoeningen. Momenteel zijn de klinische en onderzoekswereld afhankelijk van klassieke methoden om voedingsinname te meten. Deze hebben gekende beperkingen zoals recall bias, misreporting bias en zijn tijd consumerend voor deelnemers en onderzoekers. Nieuwe technologieën hebben nog geen oplossing kunnen bieden. Recent ontwikkelden we een nieuwe methode voor het meten van voedingsinname gebaseerd op Experience Sampling welke accurater en gebruiksvriendelijker bleek. Deze studie wil de constructvaliditeit van deze nieuwe methode nagaan d.m.v. vergelijking met bloed en urine biomarkers die voedingsinname reflecteren. Dit zal leiden tot een nieuwe methode om voedingsinname te meten klaar voor gebruik in onderzoek en de medische wereld.

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Research Data Summary

List and describe all datasets or research materials that you plan to generate/collect or reuse during your research project. For each dataset or data type (observational, experimental etc.), provide a short name & description (sufficient for yourself to know what data it is about), indicate whether the data are newly generated/collected or reused, digital or physical, also indicate the type of the data (the kind of content), its technical format (file extension), and an estimate of the upper limit of the volume of the data.

Dataset name / ID	Description	New or reuse	Digital or Physical data	Data Type	File format	Data volume	Physical volume
		*Indicate: **N**(ew data) or **E**(xisting data)*	Indicate: **D**(igital) or **P**(hysical)	Indicate: **A**udiovisual **I**mages **S**ound **N**umerical **T**extual **M**odel **SO**ftware Other (specify)		Indicate: <1GB <100GB <1TB <5TB >5TB NA	
ESM_nextbigthing	REDCap electronic data capture tools hosted at KU Leuven will be used to collate all data obtained from questionnaires (e.g., socio-demographic data, general health, diet) and results from biological (urine and blood) sample analysis. In line with the UZ Leuven Ethical Commitee protocals, a hard copy of the personal files needs to be stored and samples will be linked wiht the biobank.	N	D & P	N	csv	<100GB	

If you reuse existing data, please specify the source, preferably by using a persistent identifier (e.g. DOI, Handle, URL etc.) per dataset or data type:

NA

Are there any ethical issues concerning the creation and/or use of the data (e.g. experiments on humans or animals, dual use)? If so, refer to specific datasets or data types when appropriate and provide the relevant ethical approval number.

- Yes, human subject data (Provide SMEC or EC approval number below)

The EC approval is not yet obtained. The process is running.

Will you process personal data? If so, please refer to specific datasets or data types when appropriate and provide the KU Leuven or UZ Leuven privacy register number (G or S number).

- Yes (Provide PRET G-number or EC S-number below)

See remark above S-number not yet available

Does your work have potential for commercial valorization (e.g. tech transfer, for example spin-offs, commercial exploitation, …)? If so, please comment per dataset or data type where appropriate.

- Yes

But this is only on the methodological approach. The newly created dataset will be used for validation purposes.

Do existing 3rd party agreements restrict exploitation or dissemination of the data you (re)use (e.g. Material or Data transfer agreements, Research collaboration agreements)? If so, please explain in the comment section to what data they relate and what restrictions are in place.

- No

Are there any other legal issues, such as intellectual property rights and ownership, to be managed related to the data you (re)use? If so, please explain in the comment section to what data they relate and which restrictions will be asserted.

- No

Documentation and Metadata

Clearly describe what approach will be followed to capture the accompanying information necessary to keep data understandable and usable, for yourself and others, now and in the future (e.g. in terms of documentation levels and types required, procedures used, Electronic Lab Notebooks, README.txt files, codebook.tsv etc. where this information is recorded).

In REDCAP a coding file is provided. This coding system allows researchers to understand all included variables.

Will a metadata standard be used to make it easier to find and reuse the data?
If so, please specify which metadata standard will be used.

If not, please specify which metadata will be created to make the data easier to find and reuse.

- Yes

Our unit has created a metadata standard to standardise and to understand the different variables included in the database.

Data Storage & Back-up during the Research Project

Where will the data be stored?

- Shared network drive (J-drive)

Our research team has set up a system where the different researchers store their data on the J-drive.
Using the same standard protocol allows us to compare different datasets.

How will the data be backed up?

- Standard back-up provided by KU Leuven ICTS for my storage solution

Is there currently sufficient storage & backup capacity during the project?

If no or insufficient storage or backup capacities are available, explain how this will be taken care of.

- Yes

How will you ensure that the data are securely stored and not accessed or modified by unauthorized persons?

Only the PI and researchers allocated to this research project are allowed to have access to the database.

What are the expected costs for data storage and backup during the research project? How will these costs be covered?

Funding is foreseen in the project

Data Preservation after the end of the Research Project

Which data will be retained for 10 years (or longer, in agreement with other retention policies that are applicable) after the end of the project?

In case some data cannot be preserved, clearly state the reasons for this (e.g. legal or contractual restrictions, storage/budget issues, institutional policies...).

- All data will be preserved for 10 years according to KU Leuven RDM policy

Where will these data be archived (stored and curated for the long-term)?

- Shared network drive (J-drive)

What are the expected costs for data preservation during the expected retention period? How will these costs be covered?

Funding is foreseen in the project.

Data Sharing and Reuse

Will the data (or part of the data) be made available for reuse after/during the project?
Please explain per dataset or data type which data will be made available.

- Yes, as restricted data (upon approval, or institutional access only)

The data can be made available upon reasonable request of other research institutes. In the project we will explore the collaboration with **International Atomic Energy Agency (IAEA).** Our newly obtained data can maybe integrated in the IAEA Doubly Labelled Water (DLW) Database (https://doubly-labelled-water-database.iaea.org/home).

If access is restricted, please specify who will be able to access the data and under what conditions.

The data can be made available upon reasonable request of other research institutes.

Are there any factors that restrict or prevent the sharing of (some of) the data (e.g. as defined in an agreement with a 3rd party, legal restrictions)?

Please explain per dataset or data type where appropriate.

- No

Where will the data be made available?

If already known, please provide a repository per dataset or data type.

- KU Leuven RDR (Research Data Repository)

When will the data be made available?

- Upon publication of research results

Which data usage licenses are you going to provide?

If none, please explain why.

- Other (specify below)

Public Domain Mark (PD)
The work identified as being free of known restrictions under copyright law, including all related and neighboring rights.

Do you intend to add a persistent identifier (PID) to your dataset(s), e.g. a DOI or accession number? If already available, please provide it here.

- Yes, a PID will be added upon deposit in a data repository

What are the expected costs for data sharing? How will these costs be covered?

No specific costs are involved

Responsibilities

Who will manage data documentation and metadata during the research project?

Christophe Matthys and Joke Verbeke

Who will manage data storage and backup during the research project?

Christophe Matthys and Joke Verbeke

Who will manage data preservation and sharing?

Christophe Matthys and Joke Verbeke

Who will update and implement this DMP?

Christophe Matthys and Joke Verbeke