An integrative approach to the media-effects within the family context

A Data Management Plan created using DMPonline.be

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Project abstract:

The rapid proliferation of digital technologies has brought about profound transformations in the family system. However, methodological constraints have historically hampered detailed investigations of family media practices. Hence, the general aim of this project is to address this need by developing a holistic model of media-effects within and on familial interactions based on the family system approach. To this end, this project will employ a multi-method approach consisting of an extensive qualitative study to gain in-depth insight in the various ways digital media are used within families, and a two-wave ESM study to determine how such use positively and negatively affects the family system on both short- and long-term outcomes.

This project addresses four important gaps in current family and media research: 1) it goes beyond individualistic perspectives by simultaneously including several family members and their mutual interactions, 2) with attention to both positive (i.e., strengthening) and negative (i.e., interfering) outcomes, and concurrently 3) taking into account the diversity in what 'being a family' means as well as 4) the dynamic nature of media use. The findings resulting from this innovative multi-method research design will shed new light on the positive and negative role of digital media on familial interaction patterns and on preadolescent-, parent- and family-outcomes.

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1. 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	Description	New or reused	Digital or Physical	Only for digital data Digital Data Type	Only for digital data Digital Data format	Only for digital data Digital data volume (MB/GB/TB)	Only for physical data Physical volume
WP1: media diaries & interviews	1. Informed consent	Generate new data	Digital	NA	.pdf	<1 GB	
	2. Contact information	Generate new data	Digital	• Observational	.csv	<1 GB	
	3. Baseline questionnaire, collected via Qualtrics	Generate new data	Digital	• Observational	.csv .R (r scripts)	<1 GB	
	4. Daily media diaries, collected via m-path	Generate new data	Digital	• Observational	.csv	<100 GB	
	5. Codes of daily media diaries, in Nvivo	Generate new data	Digital	• Software	.csv .nvp (Nvivo file)	<1 GB	
	6. Audio of the semi-structured interviews	Generate new data	Digital	• Observational: audio	.mp3 .wav	<100 GB	
	7. Transcripts of the semi-structured interviews	Generate new data	Digital	• Observational	.docx .nvp (Nvivo file)	<100 GB	
	8. Codes of the interviews, in Nvivo	Generate new data	Digital	• Software	.csv .nvp (Nvivo file)	<1 GB	
	9. Follow-up questionnaire	Generate new data	Digital	• Observational	.csv .R (r scripts)	<1 GB	
	10. SMEC approval (PRET application): G-2023-6884-R3(MAR)		Digital		.pdf	<1 GB	
	11. Personal data (except for contact information)	Generate new data	Digital	• Observational	.csv	<1 GB	
WP2: 2-wave ESM	1. Informed consent	Generate new data	Digital	NA	.pdf	<1 GB	
	1. Contact information	Generate new data	Digital	• Observational	.csv	<1 GB	
	2. Baseline questionnaire	Generate new data	Digital	• Observational	.csv .R (r scripts)	<1 GB	
	3. Experience sampling data	Generate new data	Digital	• Observational	.csv .R (r scripts)	<100 GB	
	4. SMEC approval (PRET application)		Digital		.pdf	<1 GB	
	5. Personal data (except for contact information)	Generate new data	Digital	• Observational	.csv	<1 GB	

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:

Not applicable.

Are there any ethical issues concerning the creation and/or use of the data (e.g. experiments on humans or animals, dual use)? Describe these issues in the comment section. Please refer to specific datasets or data types when appropriate.

- Yes, human subject data

Ethical approval by SMEC KU Leuven [G-2023-6884-R3]

Will you process personal data? If so, briefly describe the kind of personal data you will use in the comment section. Please refer to specific datasets or data types when appropriate.

- Yes

Yes, of both parents and children we will process personal data (age, gender, family composition, well-being, family relations) in the baseline questionnaire of WP1 & WP2

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.

- No

Do existing 3rd party agreements restrict exploitation or dissemination of the data you (re)use (e.g. Material/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

2. 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).

The main researcher will collect all data and group the different datafiles according to the different work packages (WP) in the secured KU Leuven folder.

Work Package 1:

For the baseline questionnaire, we will create a comprehensive protocol outlining the administration of the questionnaire and any subsequent follow-up procedures. A detailed codebook will be developed to define variables, abbreviations, and range of acceptable responses for each question. Moreover, a copy of the questionnaire will be retained as a methodological document. We will also use extensive online comments in the R script to clarify the transformation process from questionnaire responses to the construction of variables.

For the media diaries, the set of questions will be documented as well as the process of pseudonymisation.

For the interviews, transcripts will be supplemented with a protocol outlining the conduct of interviews, the set of questions, and any prompts used. The process of pseudonymisation will be documented to reassure data privacy. The interview transcript files will follow a clear structure and naming convention, incorporating metadata to denote unique identifiers, interviewers, and timestamps.

For NVivo data, we will establish an extensive codebook elucidating each code's meaning, the rules of application, and the hierarchies or relationships among codes. We will document any alterations in the coding scheme over time.

Work Package 2:

For the baseline questionnaire, we will create a comprehensive protocol outlining the administration of the questionnaire and any subsequent follow-up procedures. A detailed codebook will be developed to define variables, abbreviations, and range of acceptable responses for each question. Moreover, a copy of the questionnaire will be retained as a methodological document. We will also use extensive inline comments in the R script to clarify the transformation process from questionnaire responses to the construction of variables.

For the ESM, we will create a codebook and coding rules, and the syntax that processes raw data. All data transformations and analyses performed on these datasets will be explained in a document and stored in a safe folder.

To manage and organize our references, we will use the reference manager Zotero. Zotero will help us to collect, organize, cite, and share research sources, thereby improving the traceability and reproducibility of our work. For each work package, a preregistration will be documented.

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Will a metadata standard be used to make it easier to find and reuse the data? If so, please specify (where appropriate per dataset or data type) which metadata standard will be used. If not, please specify (where appropriate per dataset or data type) which metadata will be created to make the data easier to find and reuse.

- Yes

I will add the following documentation to my data:
• Project-level documentation: a README.txt file contained in I:\PhD\FWO, based on the template README.txt provided by research support staff at KU Leuven and adapted to the needs of my project and my discipline.
• File-level documentation: additional README.txt files contained in I:\PhD\FWO

3. Data storage & back-up during the research project

Where will the data be stored?

Shared network drive (J-drive), OneDrive and personal network drive (I-drive). Data with personal identifiers will be saved in a separate folder then the pseudominized data on the researcher's personal OneDrive.

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 yes, specify concisely.
If no or insufficient storage or backup capacities are available, then 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?

First of all, all files can only be accessed with a Multifactor Authentication of the doctoral researcher's KU Leuven account.
To further prevent unauthorized access or modification, personal data will be pseudonymised before being stored in the research unit's storage. Any non-pseudonymised personal data will be securely stored on the researchers' OneDrive, where access is limited. Furthermore, our data management protocols will be subjected to review during the ethical application process via PRET for SMEC approval, ensuring stringent ethical and security measures are in place.
In case of interviews, the audio record will be deleted once the interview of that participant has been fully transcribed.

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

OneDrive for Business is free for staff and students of KU Leuven.
There are no additional costs for this project. The I- and J-drive can be accessed for this project, as the costs are covered by the overall research group.

4. Data preservation after the end of the research project

Which data will be retained for at least five 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 on the shared network drive (J-drive) according to KU Leuven RDM policy.
All email addresses or other personal contact information will be deleted after the completion of the data collection. In addition, data of the interviews (WP1) that is of intimate nature and is not a part of the data analysis for the research aims will be removed.

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

Only pseudonymized data of the surveys (baseline and ESM) will be stored on the Open Science Framework.

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

There are no expected costs for data preservation during the retention period.

5. Data sharing and reuse

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

- Yes, in a restricted access repository (after approval, institutional access only, …)

Only the baseline questionnaire (WP1 and WP2), and the ESM survey (WP2) will be put on OSF with an embargo after pseudonymization and on RDR.
The codes after analysis of the media diaries and interviews (WP1) will be put on RDR with restricted access.

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

Scientific researchers will have to motivate why they want access to the data: What topic are you studying? How is the data linked to your research domain? Why do you think you need this data? Which question/problem will the data help with? What do you expect the data to provide you with? We will always ask to give credit to the original data creators when the data it is being used by other researchers.

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 in the comment section per dataset or data type where appropriate.

- Yes, Privacy aspects

We work with confidential data (e.g., name, gender, subjective perceptions...). The collected data on the datasets of WP1 and WP2 could contain personal or sensitive information or data, that will be pseudo-anonymized.

Where will the data be made available? If already known, please provide a repository per dataset or data type.

All pseudo-anonymized datasets will be made available on RDR.

When will the data be made available?

Upon publication of research results (only embargoed data).

Which data usage licenses are you going to provide? If none, please explain why.

CC-BY 4.0 (data)

We will apply a Custom KU Leuven license to the restricted pseudonymized data (https://www.kuleuven.be/rdm/en/rdr/custom-kuleuven)

Data from the project can be shared will be made available under a creative commonse attribution license, so that users have to give credit to the original creators.

Do you intend to add a PID/DOI/accession number to your dataset(s)? If already available, you have the option to provide it in the comment section.

- Yes

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

no costs are expected for data sharing

6. Responsibilities

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

The PhD researcher (Nele Janssens) will be responsible for data documentation & metadata

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

Data management, storage and back up will be performed by the PhD researcher (Nele Janssens)

Who will manage data preservation and sharing?

Kathleen Beullens (supervisor) will be responsible for ensuring data preservation and sharing.

Who will update and implement this DMP?

The PhD researcher (Nele Janssens) will be responsible for updating this DMP.