Assessing and promoting newcomer children's psychosocial, linguistic, and cultural developmental outcome: A two-phased mixed-method interdisciplinary study

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Creators: Caroline Spaas, Lucia De Haene

Affiliation: KU Leuven (KUL)

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Principal Investigator: Caroline Spaas

Data Manager: Caroline Spaas

Project Administrator: Lucia De Haene

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Project abstract:

In newcomer children's outcome, developmental tasks are complicated by multiple stressors, loss, and cultural change, implying at-risk functioning in psychosocial well-being, linguistic competence, and cultural belonging. Scholarly work shows a growing emphasis on a relational analysis of associations between developmental outcome in child psychosocial well-being, linguistic competence, and cultural identifications, including the role of children's family, school, and migration history in shaping this developmental triad. This study aims at an in-depth exploration of newcomer children's developmental triad within their proximal ecologies of family and school, followed by a mixed-method evaluation of the role of school-based interdisciplinary care in promoting positive psychosocial, linguistic, and cultural outcome in newcomer children.

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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	Description	New or reuse	Digital or Physical data	Data Type	File format	Data volume	Physical volume
C2_Study Phase 1_QUANT_CrossSectional	Questionnaire data on child developemental triad and proximal variables collected with 240 parents and 240 teachers within a large-scale cross-sectional research design	New	Physical Questionnaires Digital data file after data input	Spreadsheets & Statistical data (Quantitative questionnaire data)	.csv .sps .R	<100gb	240 Paper Questionnaires collected with parents 240 Paper Questionnaires collected with teachers
C2_Study Phase 1_QUAL	Audio files and transcripts from 2 interviews conducted with 10 parents and 10 teachers	New	Digital	Audio & Textual (Qualitative interview data)	.mp3 .docx .pdf	<100gb	/
C2_Study Phase 2_QUAL_GTM	Audio files and transcripts from 4 mixed focus groups with 5 parents and 15 professionals and from 2 expert panels with 10 field expers	New	Digital	Audio & Textual (Qualitative focus group data)	.mp3 .docx .pdf	<100gb	/
C2_Study Phase 2_QUAL_baseline&case series	Audio files and transcripts obtained through consecutive interviews and focus groups with 10 parents and 10 teachers Observational data obtained through teacher observation	New	Digital	Audio & Textual (Qualitative interview, focus group, and observational data)	.mp3 .docx .pdf	100 gb(?)	/
C2_Study Phase 2_QUANT_baseline&case series	Questionnaire data collected from 5 families and teachers at monthly interval during 9-month SiCC intervention trajectory	New	Physical Questionnaires Digital data file after data input	Spreadsheets & Statistical data (Quantitative questionnaire data)	.csv .sps .R	<100gb	45 Paper Questionnaires collected with parents 45 Paper Questionnaires collected with teachers
C2_Systematic Review	Collection of articles and grey literature on child developmental triad obtained through systematic literature search	New	Digital	Textual	.pdf	<100gb	/
C2_Field notes	Collection of field notes from different reseachers involved in the four-year study (2 doctoral students, 1 post-doc, migrant co-researchers)	New	Physical and digital dairy entries	Texual	.docx .pdf	<100gb	3 to 5 notebooks containing field notes made by different researchers

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:

The project will not reuse existing data.

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)

In this two-phased mixed-method study, we will collect the following demographic and personal data from participants: name, age, gender, occupation, family composition, telephone number, and email address.
Collected data will be pseudonymized, whereby each participant will be allocated a unique code that will allow for the connection of several types of data at different points in time: questionnaire, interview, observational, and focus group data. The file where the pseudonyms are linked to the personal data and identifiers will be stored separately on
the KU Leuven server, accessible only by Caroline Spaas, the post-doctoral researcher responsible for day-to-day project coordination, and Lucia De Haene, the study lead.
During interviews, focus groups, and expert panels, participants will be recorded and transcribed. Names of parent and teacher interviewees will be pseudonymized according to the above-described procedure. When relevant/necessary to use the name of the interviewee (e.g. experts participating in the expert panels), the interviewee will be explicitly asked to consent to using their personal data.
Ethical approval for the study was applied for through SMEC, KU Leuven with reference number G-2023-7134.

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)

Ethical approval was applied for through SMEC, KU Leuven with reference number G-2023-7134.

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 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).

First, the post-doctoral researcher in charge of day-to-day study coordination will create a subfile '1. Onderzoeksopzet' within the overarching file containing all information and documentation on the study. In this '1. Onderzoeksopzet' file, detailed information on the study design will be kept and regularly updated through detailed notes and reports of meetings and exchanges between the research team and changes/updates to the design that might result from these. In addition, thorough records of all exchanges taking place between members of the research team, or between the research team and outside parties as part of the study, will be kept in a separate folder: '2. Bijeenkomsten en overleg'.

Second, every dataset will be accompanied by a separate README.txt file, saved and accessible at the same location as the dataset. This file will contain both contextual information on the data (when, how, where, by whom, and with whom it was collected) as well as technical information on the ways in which data were processed (e.g., means of data input, data software used, manipulations of the data, process of analyses) and technical details on how to access and process the data in the future.

Each quantitative dataset will furthermore be accompanied by a codebook (excel spreadsheet) providing an overview of all variables in each dataset, their values, and corresponding meanings.

After completion of the analysis, each qualitative dataset will be accompanied by a coding tree (.pdf) detailing the outcome of the qualitative analyses.

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.

- No

Data Storage & Back-up during the Research Project

Where will the data be stored?

- OneDrive (KU Leuven)

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

We expect that the storage of the data will not exceed the storage space provided by One Drive, KU Leuven.

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

All digital data will be kept on the One Drive KU Leuven server, protected by two-factor identification needed from all KU Leuven researchers. After assessment on paper in schools or in family homes, pseudonymized data are promptly digitalized and uploaded immediately from researchers' computers to these secured network drives. During the project, data storage and organization are managed by Caroline Spaas, the post-doctoral researcher responsible for day-to-day coordination of the project.
On the server, all data are pseudonymized by allocating a unique code to each participant that allows for the connection of different types of data per participant. After pseudonymization, a document matching the codes and participants will be stored separately on One Drive and will be accessible only by Caroline Spaas, the post-doctoral researcher responsible for day-to-day coordination of the project, and Lucia De Haene, the study lead.
One Drive folders and documents will only be shared with researchers involved in the study. When needed, sharing of data and/or documents with others will occur only with restricted access (through e-mail) and editing rights (read-only).
All physical data (paper questionnaires) will be kept in a locked cabinet in the office of Caroline Spaas, the post-doctoral researcher responsible for day-to-day coordination of the project. Field notes by researchers made in physical notebooks will be kept anonymous to ensure the privacy of study participants and avoid potential identification of study participants through these field notes.

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

We expect that the storage of the data will not exceed the storage space provided by One Drive, KU Leuven. Thus, we do not anticipate any additional costs for data storage for this 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)?

- Other (specify below)

One Drive KU Leuven - Archive
Responsible: prof. dr. Lucia De Haene, project coordinator.

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

Data storage is not expected to exceed the possibilities provided by the standard KU Leuven storage solutions and thus will not involve additional costs.

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)

For the duration of the project, the data will be shared by the promotors and co-promotors of the study, the two PhD students working on the study, Caroline Spaas (post-doctoral researcher), and the migrant co-researchers working on the project. For migrant co-researchers needing access to the data, specific contracts will be drawn up documenting project privacy agreements and ensuring their secured access to One Drive KU Leuven. As such, for all members of the research team, access to the data will always be by two-factor identification to gain access to the data stored on the One Drive KU Leuven server.
After completion of the project, the data will not be made openly available nor available under embargo as data concerns potentially sensitive materials collected with a socially vulnerable group of participants (refugee and migrant families). Data might be shared upon agreement with third parties. Data-sharing policy agreements will then be drawn up between the study team and parties requesting access to the data.
Scientific publications resulting from the project will be stored in the KU Leuven repository LIRIAS.

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

For the duration of the project, the data will be shared by the promotors and co-promotors of the study, the two PhD students working on the study, Caroline Spaas (post-doctoral researcher), and the migrant co-researchers working on the project. Access to the data will always be by two-factor identification to gain access to the data stored on the One Drive KU Leuven server. Additional access to the data can be provided to Master and Bachelor students writing their theses on the project. Access to Master and Bachelor students will be restricted for the duration of their work on their theses and closely supervised by their promotors as members of the project's research team.
All additional requests for access to the data will be discussed with and evaluated by prof. dr. Lucia De Haene, project responsible.

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.

- Yes, ethical aspects

After completion of the project, the data will not be made openly available nor available under embargo as data concerns potentially sensitive materials collected with a socially vulnerable group of participants (refugee and migrant families).

Where will the data be made available?

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

- Other (specify below)

The data will not be made available.

When will the data be made available?

- Other (specify below)

The data will not be made available.

Which data usage licenses are you going to provide?

If none, please explain why.

- Other (specify below)

The data will not be made available.

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.

- No

The data will not be made available.

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

The data will not be made available.

Responsibilities

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

Project responsible and PI: prof. dr. Lucia De Haene
Responsible for day-to-day coordination, storing, and managing the data over the 4-year project duration: dr. Caroline Spaas, postdoctoral researcher

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

Responsible for day-to-day coordination, storing, and managing the data over the 4-year project duration: dr. Caroline Spaas, postdoctoral researcher

Who will manage data preservation and sharing?

prof. dr. Lucia De Haene, project coordinator

Who will update and implement this DMP?

dr. Caroline Spaas, postdoctoral researcher