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Declaration of consent to participate in the study:

Language development of monolingual and bilingual children (Research Supervisors: Stephanie Wermelinger and Kira Schwarz)

this document in
other languages



Dear Caregivers,

Your child participates in a study on language development. Please read the following information about the research project carefully. Feel free to ask if there is anything you do not understand or if you would like additional information.

Study Content:

Previous research has shown that monolingual and bilingual children differ in their language development. For example, children who grow up with several languages have a slightly smaller vocabulary than their monolingual peers. In this study, we want to investigate this in more detail with the aim of being able to support both monolingual and bilingual children in their language development.

Detailed Procedure of the Study:

The study consists of several playful tasks. We use a short computer game to record your child's vocabulary. Your child hears words in Swiss German or in their second language and can tap the corresponding pictures on a tablet. In the second game, your child hears different words and solves puzzles. Your child will be asked to recognize rhyming words or to determine which words have the same initial or final sound. In addition to these games, we ask you as a caregiver to complete a questionnaire about your child's language environment.

Duration of the Study:

The games of the study last approx. 30 minutes. The total duration, including instruction and debriefing, is approx. 45 minutes per session. A total of 500 monolingual and bilingual children aged 3 to 4 years will take part in the study between November 2024 and July 2025.

Potential Benefits and Advantages of Participating in the Study:

Participation in the current study contributes to current developmental psychological research. Additionally, it offers an interesting insight into conducting scientific studies in developmental psychology. As a thank you, your child will receive a personal certificate and a small gift.

Potential Risks of Participating in the Study:

No harm can come to your child through behavioral observation. If you have any concerns, we are happy to discuss how to address them. You can refuse or withdraw from participating in the study at any point in time without providing a reason. Recorded data up to the point of withdrawal can be deleted upon request.

Data Storage and Publication:

Personal data will be collected from your child for this project. Only very few professionals will see the unencrypted data, and only to fulfill tasks within the framework of the project. All persons who have access to your data as part of the project are subject to a duty of confidentiality. When data is collected for study purposes, the data is encrypted. Encryption means that all reference data that



could identify you (name, date of birth) will be deleted and replaced by a key. The key list always remains at the university. People who do not know the key can therefore not draw any conclusions about your child. In addition, raw data can be made available in fully anonymized form for further scientific use. The data protection regulations are complied with and you and your child as a participant have the right to view your data at any time.

Incidental Findings:

This is a purely scientific study in which we observe your child's behavior. The data from our behavioral studies are not clinically usable. In the very unlikely event that something unusual is observed in your child (incidental finding), we will inform you. If you do not wish for this to happen, please let us know beforehand.

Location of the Study:

Funding of the study:

The study is funded by the "Fonds zur Förderung des akademischen Nachwuchses (FAN)" and the University of Zurich.



Declaration of consent to participate in the study: Language development of monolingual and bilingual children

Study Number (submitted to the responsible Ethics Committee)	24.08.14
Study Title	Language development of monolingual and bilingual children
Responsible Institution	University of Zurich Department of Psychology Developmental Psychology: Infancy and Childhood Binzmühlestrasse 14, Box 21, 8050 Zurich, Switzerland
Location of conduct	
Study Director	Kira Schwarz Tel: +41 44 635 74 84 E-Mail: weltentdecker-studien@psychologie.uzh.ch
Study Conductor	

- My child _____ (name)
born on _____, and I
_____ (name)
as _____ (relationship to the child)
voluntarily participate in this study. I can withdraw my consent to participate at any time and without giving any reasons.
- I have been verbally and in writing informed about the purpose and procedure of the study, as well as about possible advantages and disadvantages.
- My **questions regarding participation in this study** have been satisfactorily answered. I can keep the written study information and receive a copy of my written consent form. I accept the content of the written study information provided for the above-mentioned study.
- I have had enough time to make my decision.
- I understand that this is a **purely scientific study** and the collected data are not clinically usable. I have been informed that in the very unlikely event that something unusual is observed in my child (incidental finding), I will be notified unless I have declined this.
- I am aware that **my child's data** will be **stored for analysis and archived** without mentioning their name. Additionally, raw data can be provided for scientific reuse in fully anonymized form. All data that could identify me or my child will be encrypted. All staff members of the department are bound by confidentiality.



The study has been approved by the Ethics Committee of the Faculty of Arts and Social Sciences and will be conducted in accordance with Swiss laws and regulations. If you have any questions or concerns, please contact hopwood@psychologie.uzh.ch.

Place, Date	Signature Parent/ Guardian/ Legal Representative
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Confirmation of Conduct: I hereby confirm that I have explained to this participant and/or their legal representative the nature, significance, and implications of the study. I assure that I will fulfill all obligations related to this study.

Place, Date	Signature of Study Conductor
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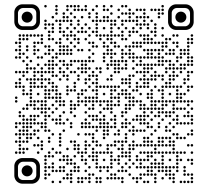
Questionnaire

this document in
other languages

Thank you for taking part in our study with your child.

This questionnaire will ask questions about your child and their caregivers. Your answers will be recorded anonymously, treated confidentially and will not be passed on to third parties.

If you have any questions, please contact the study director at any time (weltentdecker-studien@psychologie.uzh.ch, 044 635 74 84).



Questions about the child

What is your child's date of birth?

Date of birth (dd.mm.yyyy, e.g., 12.03.2021): _____

What is the gender of your child?

- Female
- Male
- Diverse

Does your child have a hearing or vision problem?

- Yes (please specify) _____
- No

Did you, your pediatrician or another person close to the child ever had concerns about your child's development?

- Yes (please specify) _____
- No

Questions about the caregivers

By **caregivers** we mean people who live wholly or partly in the same household as your child and who play a central role in your child's upbringing (e.g., mothers, fathers). **If you are one of these caregivers, please fill in the questions about the first caregiver for yourself.**

How many caregivers does your child have?

Number of caregivers: _____

Questions about the first caregiver

What is the relationship between the first caregiver (possibly yourself) and the child?

- Parent 1
- Parent 2
- Other (please specify) _____

Are you this caregiver?

- Yes
- No

What is the gender of the first caregiver (possibly yourself)?

- Female
- Male
- Diverse

What is the highest educational qualification of the first caregiver (possibly yourself)?

- No school-leaving qualification
- Compulsory school
- Vocational training / apprenticeship (Berufsmaturität, EBA, EFZ)
- General education schools (grammar school / Gymnasium, Fachmaturität, Fachmittelausweis)
- Higher vocational education (Höhere Fachprüfung HFP, Berufsprüfung BP, Diplom HF)
- University degree (Bachelor, Master, PhD)

What is the approximate monthly net income of your household before taxes?

This refers to the amount that remains after deduction of social security contributions. Please estimate the income of your household, taking into account all sources of income and including all household members.

- Less than CHF 2,000
- CHF 2'000 - CHF 4'000
- CHF 4'000 - CHF 6'000
- CHF 6'000 - CHF 8'000
- CHF 8'000 - CHF 10'000
- CHF 10'000 - CHF 12'000
- CHF 12'000 - CHF 14'000
- CHF 14'000 - CHF 16'000
- More than CHF 16'000
- I don't want to answer that.

Questions about the second caregiver

You only need to answer these questions if your child has more than one caregiver.

What is the relationship between the second caregiver and the child?

- Parent 1
- Parent 2
- Other (please specify) _____



What is the gender of the second caregiver?

- Female
- Male
- Diverse

What is the highest educational qualification of the second caregiver?

- No school-leaving qualification
- Compulsory school
- Vocational training / apprenticeship (Berufsmaturität, EBA, EFZ)
- General education schools (grammar school / Gymnasium, Fachmaturität, Fachmittelausweis)
- Higher vocational education (Höhere Fachprüfung HFP, Berufsprüfung BP, Diplom HF)
- University degree (Bachelor, Master, PhD)

Thank you for taking a few minutes of your time. Please return this questionnaire to one of the study conductors.

Language Table

This table helps us to understand how much your child hears which language/languages in everyday life. This is important for our research. Simply follow steps 1- 4, as for our example child “Lio” below.

this document in other languages

Note: Your child's everyday life can also change. Children often go through several care situations in their lives. A care situation is a defined period in which your child's care follows a certain structure/rhythm.

Our example child Lio has had 2 care situations in his life so far. That is why there are 2 different tables for Lio:

- Care situation 1 = 0 – 1 year and 3 months: care only by mom and dad
- Care situation 2 = 1 year and 3 months until now: care by mom, dad, daycare center (KiTa) and grandmother (nonna)

Please fill in a new table for each care situation.

Please specify the language as precisely as possible (e.g. distinguish between Swiss German and High German or American and British English).



1. Enter the age of your child at which a care situation started and the age at which the situation ended.
e.g. Lio was only cared for by mom and dad from 0 months to 1 year and 3 months = care situation 1.

im Alter von 0 Monate

bis

1 Jahr und 3 Monate

1 Jahr und 3 Monate bis 3 Jahre

	Montag	Dienstag	Mittwoch	Donnerstag	Freitag	Samstag	Sonntag	Wer/Wo	Sprache
06:00								Mama	Schweizerdeutsch
07:00	Mama, Papa	Mama, Papa	Mama, Papa	Mama, Papa	Mama, Papa	Mama, Papa	Mama, Papa	Papa	Italienisch
08:00	Mama	Mama	Mama	Mama, Papa	Mama	Mama, Papa	Mama, Papa		
09:00	Mama	Mama	Mama	Mama, Papa	Mama	Mama, Papa	Mama, Papa		
10:00	Mama	Mama	Mama	Mama, Papa	Mama	Mama, Papa	Mama, Papa		
11:00	Mama	Mama	Mama	Mama, Papa	Mama	Mama, Papa	Mama, Papa		
12:00	Mama	Mama	Mama	Mama, Papa	Mama	Mama, Papa	Mama, Papa		
13:00	Mama	Mama	Mama	Mama, Papa	Mama	Mama, Papa	Mama, Papa		
14:00	Mama	Mama	Mama	Mama, Papa	Mama	Mama, Papa	Mama, Papa		
15:00	Mama	Mama	Mama	Mama, Papa	Mama	Mama, Papa	Mama, Papa		
16:00	Mama	Mama	Mama	Mama, Papa	Mama	Mama, Papa	Mama, Papa		
17:00	Mama, Papa	Mama, Papa	Mama, Papa	Mama, Papa	Mama, Papa	Mama, Papa	Mama, Papa		
18:00	Mama, Papa	Mama, Papa	Mama, Papa	Mama, Papa	Mama, Papa	Mama, Papa	Mama, Papa		
19:00	Mama, Papa	Mama, Papa	Mama, Papa	Mama, Papa	Mama, Papa	Mama, Papa	Mama, Papa		
20:00	Mama, Papa	Mama, Papa	Mama, Papa	Mama, Papa	Mama, Papa	Mama, Papa	Mama, Papa		
21:00	Mama, Papa	Mama, Papa	Mama, Papa	Mama, Papa	Mama, Papa	Mama, Papa	Mama, Papa		
22:00									

	Montag	Dienstag	Mittwoch	Donnerstag	Freitag	Samstag	Sonntag	Wer/Wo	Sprache
06:00								Mama	Schweizerdeutsch
07:00	Mama, Papa	Mama, Papa	Mama, Papa	Mama, Papa	Mama, Papa	Mama, Papa	Mama, Papa	Papa	Italienisch
08:00	Mama	Mama	Nonna	Papa	KiTa	Mama, Papa	Mama, Papa	KiTa	Schweizerdeutsch
09:00	Mama	Mama	Nonna	Papa	KiTa	Mama, Papa	Mama, Papa	Nonna	Italienisch
10:00	Mama	Mama	Nonna	Papa	KiTa	Mama, Papa	Mama, Papa		
11:00	Mama	Mama	Nonna	Papa	KiTa	Mama, Papa	Mama, Papa		
	Mama	Papa	Papa	KiTa	Mama, Papa	Mama, Papa	Mama, Papa		
	Mama	Papa	Papa	KiTa	Mama, Papa	Mama, Papa	Mama, Papa		
	Mama	Papa	Papa	KiTa	Mama, Papa	Mama, Papa	Mama, Papa		
	Mama	Papa	Papa	KiTa	Mama, Papa	Mama, Papa	Mama, Papa		
	pa	Mama, Papa	Mama, Papa	Papa	Mama, Papa	Mama, Papa	Mama, Papa		
	pa	Mama, Papa	Mama, Papa	Mama	Mama, Papa	Mama, Papa	Mama, Papa		
	pa	Mama, Papa	Mama, Papa	Mr	Mama, Papa	Mama, Papa	Mama, Papa		
	pa	Mama, Papa	Mama, Papa	Mama, Papa	Mama, Papa	Mama, Papa	Mama, Papa		

2. Enter all of your child's caregivers/places and their languages for this period.
e.g. Mom speaks German with Lio, Dad speaks Italian with Lio.

3. Fill in the table for a typical week. Enter when your child is normally looked after by whom.
e.g. Lio is looked after only by mom on Monday, Tuesday, Wednesday and Friday. At all other times by mom and dad.

4. Fill in a new table for each new care situation.
e.g. As Lio got older, his care situation changed. He is now looked after by mom, dad, nonna and the daycare center = care situation 2.