

Life Sciences Reporting Summary

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► Experimental design

1. Sample size

Describe how sample size was determined.

The sample size of 54 dyads (29 in collective condition; 25 in parallel condition) was determined without a power analysis based on previous research involving commons dilemmas, as well as previous work involving delay of gratification in children.

2. Data exclusions

Describe any data exclusions.

Five dyads of children were excluded from the dataset: 1 for apparatus failure, 2 for cheating, 1 for shyness, and 1 for being previously acquainted prior to coming to the institute for testing. Exclusion criteria were established prior to data collection.

3. Replication

Describe whether the experimental findings were reliably reproduced.

No attempt was made by the authors to replicate the original findings presented in the manuscript.

4. Randomization

Describe how samples/organisms/participants were allocated into experimental groups.

Children were randomly assigned to dyads based on age, gender, and availability. All dyads were randomly assigned to a test condition prior to their arrival at the institute.

5. Blinding

Describe whether the investigators were blinded to group allocation during data collection and/or analysis.

The experimenter was not blind to condition during data collection as the setup involved a different number of apparatuses per condition. Reliability coding was done by behavioural coders blind to all predictions and results of the study.

Note: all studies involving animals and/or human research participants must disclose whether blinding and randomization were used.

6. Statistical parameters

For all figures and tables that use statistical methods, confirm that the following items are present in relevant figure legends (or in the Methods section if additional space is needed).

n/a Confirmed

- ☐ ☒ The exact sample size (n) for each experimental group/condition, given as a discrete number and unit of measurement (animals, litters, cultures, etc.)
- ☐ ☒ A description of how samples were collected, noting whether measurements were taken from distinct samples or whether the same sample was measured repeatedly
- ☐ ☒ A statement indicating how many times each experiment was replicated
- ☐ ☒ The statistical test(s) used and whether they are one- or two-sided (note: only common tests should be described solely by name; more complex techniques should be described in the Methods section)
- ☐ ☒ A description of any assumptions or corrections, such as an adjustment for multiple comparisons
- ☐ ☒ The test results (e.g. P values) given as exact values whenever possible and with confidence intervals noted
- ☐ ☒ A clear description of statistics including central tendency (e.g. median, mean) and variation (e.g. standard deviation, interquartile range)
- ☒ ☐ Clearly defined error bars

See the web collection on [statistics for biologists](#) for further resources and guidance.

► Software

Policy information about [availability of computer code](#)

7. Software

Describe the software used to analyze the data in this study.

All statistical models presented were run in R (R Core Team) using the glmer function for Generalized Linear Mixed Models (GLMM) of the R package lme4.

For manuscripts utilizing custom algorithms or software that are central to the paper but not yet described in the published literature, software must be made available to editors and reviewers upon request. We strongly encourage code deposition in a community repository (e.g. GitHub). *Nature Methods* [guidance for providing algorithms and software for publication](#) provides further information on this topic.

► Materials and reagents

Policy information about [availability of materials](#)

8. Materials availability

Indicate whether there are restrictions on availability of unique materials or if these materials are only available for distribution by a for-profit company.

No unique materials were used in the study.

9. Antibodies

Describe the antibodies used and how they were validated for use in the system under study (i.e. assay and species).

No antibodies were used.

10. Eukaryotic cell lines

a. State the source of each eukaryotic cell line used.

No eukaryotic cell lines were used.

b. Describe the method of cell line authentication used.

No eukaryotic cell lines were used.

c. Report whether the cell lines were tested for mycoplasma contamination.

No eukaryotic cell lines were used.

d. If any of the cell lines used are listed in the database of commonly misidentified cell lines maintained by [ICLAC](#), provide a scientific rationale for their use.

No commonly misidentified cell lines were used.

► Animals and human research participants

Policy information about [studies involving animals](#); when reporting animal research, follow the [ARRIVE guidelines](#)

11. Description of research animals

Provide details on animals and/or animal-derived materials used in the study.

No animals were used in this study.

12. Description of human research participants

Describe the covariate-relevant population characteristics of the human research participants.

Fifty-four gender-matched pairs of children ranging from 6 years to 6 years and 6 months were tested in this study. All pairs were unfamiliar before testing and came from similar socio-economic backgrounds in a mid-sized German city.