# Revision checklist for Nature Human Behaviour manuscripts

Please complete the checklist in full and upload it with your revised manuscript. Note that manuscripts that do not adhere to our policies will be returned to authors for revisions, delaying peer review and eventual publication.

## General

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| --- | --- |
| We ask authors to refrain from making novelty or priority claims (e.g., ‘novel’, ‘first’, ‘unprecedented’, etc.), except in the context of genetic or archaeological discovery. We also ask that authors do not use qualitative characterisations of their own work (e.g., ‘highly rigorous’, ‘robust’, ‘compelling’ etc.). Please see our Editorial, [Not the first, not the best](https://www.nature.com/articles/s41562-021-01068-x). Make sure that no novelty/priority claims or self-evaluative language are included anywhere in your manuscript (title, abstract, main text). | ☐ |
| We ask that studies reporting correlational (rather than causal) evidence use language of association rather than causation to describe their findings. For instance, language such as ‘the effect/impact of x on y’; ‘x drives x’; ‘x leads to a change in y’ and so on, is inappropriate when the evidence is correlational. In all such cases, ‘x correlates/is associated with y’ or similar should be used. | ☐ |
| For studies reporting statistically null results, make sure that you do not interpret the absence of evidence as evidence of absence. There is no statistical test that can demonstrate the absence of an effect. Statements such as ‘There is no association between x and y.’ or ‘X has no effect on Y.’ must be revised to read ‘[No/Little] credible evidence of an association between x and y.’ or ‘[No/Little] credible evidence that X affects Y.’ | ☐ |
| Ensure that your main text does not recycle text from previous publications without proper acknowledgment and citation of the original work. Note that text recycling from the authors’ own work is a form of plagiarism and must be avoided (see our policy here: <https://www.nature.com/authors/policies/plagiarism.html>). | ☐ |

## Title

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| Up to 150 characters (including spaces) | ☐ |
| Not in a “title:subtitle” format | ☐ |

## Abstract

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| Up to 150 words. | ☐ |

## Main text

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| The main text of your manuscript (i.e., the introduction, results and discussion, excluding the Methods and all other elements, such as abstract, references, figure legends, tables, etc.) should not exceed 5000 words. | ☐ |

## Discussion

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| The discussion section must include a transparent discussion of limitations. | ☐ |

## Statistics

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| Frequentist inferential statistics should be reported in full wherever they occur (main text, Figure captions, Tables) as follows:  statistic(degrees of freedom) = value, p = value, effect size statistic = value, % Confidence Intervals = values  P values reported should be exact. Do not report ‘ns’ – give the exact value. | ☐ |
| All statements or interpretations of the results should be supported by appropriate, fully reported statistics. This extends to comparisons of relationships between variables – for example, interpretations pertaining to difference of differences are also supported by appropriate statistics1. For example, if comparison A is statistically significant and comparison B is not, it does not mean that the difference between A and B is itself statistically significant. (See Gelman, A. & Stern, H. [The difference between “significant” and “not significant” is not itself statistically significant](http://www.stat.columbia.edu/~gelman/research/published/signif4.pdf). Am. Stat. 60, 328–331 (2006)). If you would like to make claims about difference, A and B must be tested directly. | ☐ |
| Results that do not reach conventional thresholds of statistical significance are not statistically significant. Do not discuss these results as ‘marginally significant’ or ‘just missing significance’ and do not interpret these results as providing support for the hypotheses tested. | ☐ |
| If your manuscript reports any null results and you provide interpretations of these results, you must also report Bayes Factors or equivalence tests. If the **main results** of your manuscript are null, in addition to Bayes Factors or equivalence tests, we require that you provide statistical evidence that the study is sufficiently powered to detect the smallest theoretically or practically meaningful effect. | ☐ |
| For manuscripts that use Bayesian statistics, we require a description of the prior specification (i.e., the type of distribution and its parameter values). For informed priors, please provide a justification for the choices made. For hypothesis-testing analyses, please provide both the Bayes Factor and a sensitivity analysis of the Bayes factor under different prior specifications. For parameter estimation, please report summary values and include credible intervals, as well as a plot that includes the posterior distribution, prior distribution, Bayes factor, credible intervals, and posterior median. For more guidance on reporting the results of Bayesian statistical analyses, please see [Kruschke 2021](https://doi.org/10.1038/s41562-021-01177-7) and [van Doorn et al. 2020](https://doi.org/10.3758/s13423-020-01798-5). | ☐ |

## Methods

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| There is no word limit for the Methods section. It should include all details necessary for reproducing your results. | ☐ |
| If your manuscript reports the results of research with human participants, the Methods section should start with a statement:   1. confirming that your research complies with all relevant ethical regulations; 2. naming the board and institution that approved the study protocol; 3. confirming that informed consent was obtained from all human participants (or exemption of informed consent was provided by the committee that reviewed the study, along with the rationale); 4. disclosing information on participant compensation; 5. indicating whether any, all, or none of your studies were preregistered. | ☐ |
| If (any of) your studies was preregistered, we require that:   1. you provide a link to the pre-registration; 2. state the date of pre-registration 3. disclose all deviations from the pre-registered protocol and explain the rationale for deviation (e.g., flaw, suboptimality, or reviewer/editorial request); 4. in cases of deviation, the originally planned analyses are reported in Supplementary Information (except if unfeasible or undoubtedly flawed). | ☐ |
| If your manuscript reports the results of research with non-human animals, the Methods section should start with a statement   1. confirming that your research complies with all relevant ethical regulations; 2. naming the board and institution that approved the study protocol; 3. confirming that the ARRIVE guidelines were used to report the research; 4. indicating whether any, all, or none of your studies were preregistered (with additional information as above for preregistered studies). | ☐ |
| If your manuscript reports the results of a clinical trial, the Methods section should include the trial registration number from ClinicalTrials.gov or an equivalent clinical trial registry. For Phase 2 or 3 randomized controlled trials, we also require that you attach a completed CONSORT checklist with your submission. | ☐ |
| Your Methods section should include a statement indicating how the sample sizes were chosen. If power analysis or Bayesian sampling was used, provide full details. If you did not use a formal method for determining sample size, please use the following statement: "No statistical methods were used to pre-determine sample sizes but our sample sizes are [similar to/larger than] those reported in previous publications (ref x,y,z)." | ☐ |
| For experimental studies, the Methods section must include a statement on randomization and whether blinding was used. | ☐ |

## Data availability

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| Your **data availability** section should inform readers about the availability of the data used to support the conclusions of your study. We strongly encourage authors to publicly share their data unless there are ethical or legal restrictions that prevent you from sharing. For Registered Reports, public sharing of data is mandatory. For all other manuscripts, at a minimum, you should include the following statement: “The data that support the findings of this study are available from the corresponding author upon request”, mentioning any restrictions on availability. If your data are only available upon request, you must explain the reason. If DOIs are provided, we also strongly encourage including these in the Reference list (authors, title, publisher (repository name), identifier, year). For more guidance on how to write this section please see: <http://www.nature.com/authors/policies/data/data-availability-statements-data-citations.pdf> | ☐ |

## Code availability

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| You only need to include a separate Code availability statement on the availability of your analysis routines/code if you developed any custom code. We ask that you deposit your code in a DOI-minting repository (e.g., Zenodo, Code Ocean, Gigantum). If legal or other restrictions prevent you from sharing your code, you should include the following statement: “Custom code that supports the findings of this study is available from the corresponding author upon request.”, with an explanation of the constraints that prevent you from sharing it. | ☐ |

## Acknowledgements

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| Please indicate all sources of funding that supported your work. If no specific funding supported the work, include the following statement: “The authors received no specific funding for this work.” For work that was supported by a funder, indicate what role the funder(s) had in the conceptualization, design, data collection, analysis, decision to publish, or preparation of the manuscript. If any of this information could be perceived as a competing interest, ensure that it is also included in your competing interests statement. If the funder(s) had no role, please include the following statement: “The funders had no role in study design, data collection and analysis, decision to publish or preparation of the manuscript.” | ☐ |

## Author contributions

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| Include an ‘Author contributions’ statement of individual author contributions to the paper (such as experimental work, project planning, data analysis, etc.). The statement should be short and refer to authors by their initials. For details please see the Authorship section of our joint Editorial policies at <http://www.nature.com/authors/editorial_policies/authorship.html> | ☐ |

## Competing interests

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| We ask authors to declare both financial and non-financial competing interests. See <https://www.nature.com/authors/policies/competing.html> for more details. If you have no financial or non-financial competing interests, please use the following standard statement: “The authors declare no competing interests.” | ☐ |

## Figures and Tables

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| --- | --- |
| No more than 8 display items in the main manuscript (more Figures and Tables can be provided as Supplementary Information). | ☐ |
| Data should be presented in a format that shows data distribution (dot-plots or box-and-whisker plots), with all box-plot elements (e.g. center line, median; box limits, upper and lower quartiles; whiskers, 1.5x interquartile range; points, outliers) defined. If bar graphs are used, the corresponding dot plots should be overlaid. | ☐ |
| Graph axes start at zero and have not been altered in scale to exaggerate effects. A ‘discontinuity’ can be used for the y axis if absolutely necessary due to sizing constraints, but the break must be visually evident and should not impinge on any data points. | ☐ |

## References

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| Within the text, references should appear as superscript Arabic numerals, in order of mention. If a reference is cited more than once, the same number should be used throughout the text and the reference should receive a single entry in the reference list. | ☐ |
| The reference list should only include   1. articles that have been published or accepted by a named publication; 2. preprints deposited in a recognized preprint server; 3. published conference abstracts; 4. numbered patents 5. deposited research datasets or code that have been assigned a digital object identifier (DOI). | ☐ |
| Unpublished manuscripts, submitted manuscripts, and manuscripts under review/revision should not be included in the reference list. If a manuscript is under consideration, not yet submitted or not yet accepted, it should be mentioned in the main text only in parentheses, as follows: (Up to five author names, et al., unpublished manuscript). **No major claims can rely solely on unpublished manuscripts or data.** | ☐ |

## Ordering of manuscript content

Please make sure that elements of your manuscript are in the following order:

1. *Title*
2. *Author list*
3. *Affiliations*
4. *Abstract*
5. *Main text*
6. *Methods*
7. *Data Availability*
8. *Code Availability (if relevant)*
9. *Acknowledgements*
10. *Author Contributions Statement*
11. *Competing Interests Statement*
12. *Tables*
13. *Figure Legends/Captions (for main text figures)*
14. *References*

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