

## ***Archives of Scientific Psychology* Reporting Questionnaire for Manuscripts Describing Primary Data Collections**

**JARS: ALL:** These questions should be answered for **all** submitted manuscripts

MANUSCRIPT SECTION	Description
<p style="text-align: center;"><b><i>TITLE</i></b></p>	<p>Does the Title identify the variables and theoretical issues under investigation, as well as the relationship between them?</p> <p>Yes <input type="checkbox"/>      No <input type="checkbox"/></p> <p>If no, please explain:</p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>
<p style="text-align: center;"><b><i>AUTHOR NOTE</i></b></p> <p>For a review of what should be included in the Author Note, see the <i>Publication Manual of the American Psychological Association</i>: <a href="http://www.apastyle.org/manual/">http://www.apastyle.org/manual/</a></p>	<p>Does the Author Note contain acknowledgment of special circumstances, for example:</p> <ul style="list-style-type: none"> <li>• use of data also appearing in previous publications, dissertations, conference papers?</li> </ul> <p>Yes <input type="checkbox"/>      No <input type="checkbox"/></p> <p>If yes, please explain:</p> <div style="border: 1px solid black; height: 150px; width: 100%;"></div>

**Archives of Scientific Psychology Questionnaire for Manuscripts Describing Primary Data Collections**  
**(Based on APA Journal Article Reporting Standards – JARS Questionnaire) 2**

	<ul style="list-style-type: none"><li>sources of funding or other support?</li></ul>
	<p>Yes <input type="checkbox"/>      No <input type="checkbox"/></p> <p>If yes, please explain:</p> <div></div>
	<ul style="list-style-type: none"><li>relationships that may be perceived as conflicts of interest?</li></ul>
	<p>Yes <input type="checkbox"/>      No <input type="checkbox"/></p> <p>If yes, please explain:</p> <div></div>

*Archives of Scientific Psychology* Questionnaire for Manuscripts Describing Primary Data Collections  
(Based on *APA Journal Article Reporting Standards – JARS* Questionnaire) 3

**SCIENTIFIC ABSTRACT**

Does the Scientific Abstract describe:

- the problem under investigation?

Yes ☐ No ☐

If no, please explain:

- participants or subjects, specifying pertinent characteristics; in animal research, including genus and species?

Yes ☐ No ☐

If no, please explain:

**Archives of Scientific Psychology Questionnaire for Manuscripts Describing Primary Data Collections**  
(Based on *APA Journal Article Reporting Standards – JARS* Questionnaire) 4

- study method, including:
  - sample size?  
Yes ☐ No ☐
  - any apparatus used?  
Yes ☐ No ☐
  - measures?  
Yes ☐ No ☐
  - data-gathering procedures?  
Yes ☐ No ☐
  - research design (e.g., experiment, observational study)?  
Yes ☐ No ☐

If answered “no” for any of the study methods above, please explain:

- findings, including effect sizes and confidence intervals and/or statistical significance levels?  
  
Yes ☐ No ☐

**Archives of Scientific Psychology Questionnaire for Manuscripts Describing Primary Data Collections**  
(Based on *APA Journal Article Reporting Standards – JARS* Questionnaire) 5

	If no, please explain:
	<ul style="list-style-type: none"><li>• conclusions and the implications or applications? Yes <input type="checkbox"/>    No <input type="checkbox"/></li></ul>
	If no, please explain:

**INTRODUCTION**

For the Introduction please indicate whether the requested information can be found in this section of the manuscript, in a supplemental file, or whether the information is not relevant to the study. If the information is not relevant, please provide a brief explanation.

Does the Introduction:

- describe the importance of the problem?

In manuscript ☐

In supplemental files ☐

Not relevant ☐

If not relevant, please explain:

- describe theoretical or practical implications of the problem?

In manuscript ☐

In supplemental files ☐

Not relevant ☐

If not relevant, please explain:

**Archives of Scientific Psychology Questionnaire for Manuscripts Describing Primary Data Collections**  
(Based on *APA Journal Article Reporting Standards* – JARS Questionnaire) 7

	<ul style="list-style-type: none"><li>• review relevant scholarship in relation to previous work?</li></ul> <p>In manuscript <input type="checkbox"/>      In supplemental files <input type="checkbox"/>      Not relevant <input type="checkbox"/></p> <p>If not relevant, please explain:</p> <div></div>
	<ul style="list-style-type: none"><li>• review if other aspects of this study have been reported upon previously and how the current report differs from these earlier reports?</li></ul> <p>In manuscript <input type="checkbox"/>      In supplemental files <input type="checkbox"/>      Not relevant <input type="checkbox"/></p> <p>If not relevant, please explain:</p> <div></div>

**Archives of Scientific Psychology Questionnaire for Manuscripts Describing Primary Data Collections**  
(Based on *APA Journal Article Reporting Standards – JARS* Questionnaire) 8

- describe the specific hypotheses or objectives, such as
  - theories or other means to derive hypotheses, if hypotheses were offered?

In manuscript ☐

In supplemental files ☐

Not relevant ☐

If not relevant, please explain:

- primary hypotheses?

In manuscript ☐

In supplemental files ☐

Not relevant ☐

If not relevant, please explain:



- secondary hypotheses?

In manuscript ☐

In supplemental files ☐

Not relevant ☐

If not relevant, please explain:

- planned exploratory analyses?

In manuscript ☐

In supplemental files ☐

Not relevant ☐

If not relevant, please explain:

- describe how hypotheses and research design relate to one another?

In manuscript ☐

In supplemental files ☐

Not relevant ☐

If not relevant, please explain:

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## METHOD

**Participant or subject characteristics:**

***For the Method section, please provide the information requested below, regardless of whether it also appears in the rest of the manuscript or in supplemental files.***

- What were the eligibility and exclusion criteria for participants or subjects, including any restrictions based on demographic characteristics?

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- What were the major demographic characteristics of participants or subjects as well as important topic-specific characteristics, or, in the case of animal research, the genus and species?

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**Sampling procedures:**

- What procedures were used for selecting participants, including
  - the sampling method

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**Archives of Scientific Psychology Questionnaire for Manuscripts Describing Primary Data Collections**  
(Based on *APA Journal Article Reporting Standards – JARS* Questionnaire) 12

- the percentage of sample approached that participated

\_\_\_\_\_ %

- any self-selection, either by individuals or by nomination from others?

- What were the settings and locations where data were collected?

- Were any agreements and payments made to participants?

- Were IRB agreements obtained, ethical standards met, and safety monitored?

Yes ☐ No ☐

If no, please explain:

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**Sample size, power and precision:**

- What was the intended sample size?  
n = \_\_\_\_\_
- What was the actual sample size?  
n= \_\_\_\_\_
- How was sample size determined:
  - power analysis?  
Yes ☐ No ☐
  - other methods used to determine accuracy of parameter estimates?  
Yes ☐ No ☐

If yes, describe:

- stopping rules or interim analyses?  
Yes ☐ No ☐

If yes, describe:

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**-----**  
**Measures and covariates:**

- Please provide the definitions of all primary and secondary measures and covariates taken in the study, including measures collected but not included in this report

Measure name:	Definition:

- What methods were used to collect data?

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- Were methods used to enhance the quality of measurements?

- training and reliability of data collectors?

Yes ☐ No ☐

- use of multiple observations?

Yes ☐ No ☐

- What are the known psychometric and biometric properties of instruments used in the study?

Measure Name:	Property:	Result:

**Archives of Scientific Psychology Questionnaire for Manuscripts Describing Primary Data Collections**  
(Based on APA Journal Article Reporting Standards – JARS Questionnaire) 15

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**Research design:**

- Were conditions manipulated ☐ or naturalistic ☐?

If manipulated, please complete **JARS:EXP** (see below)

If manipulated, were subjects randomly assigned to conditions?

Yes ☐ No ☐

If randomly assigned, please complete **JARS: RCT** (see below)

If not randomly assigned, please complete **JARS:QED** (see below)

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**Miscellaneous:**

- Are there any other aspects of the study's methods that are important for the interpretation or replication of its findings?

**RESULTS**

*For the Results section, please provide the information requested in the questionnaire or provide the page number, table, or supplemental file in which the information can be found.*

If your manuscript is accepted for publication, you will need to deposit your data set in an approved data repository. Please see Instructions to Authors for more information:

[www.apa.org/pubs/journals/arc](http://www.apa.org/pubs/journals/arc)

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**Participant flow:**

- How did participants move through each stage of the study and how many were lost at each stage, if any (use flow chart, if appropriate—*see Figure 1 below for an example*)?

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**Recruitment:**

- Please provide the dates defining the periods of recruitment and repeated measures or follow-up.

Period Recruitment:	Start Date:	End Date:

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**Missing data:**

- Did you experience problems concerning statistical assumptions and/or data distributions that could affect the validity of findings?

Yes ☐      No ☐

If yes, please describe:



	<ul style="list-style-type: none"><li>• Missing data<ul style="list-style-type: none"><li>• Is missing data a cause of concern in this data set? Yes <input type="checkbox"/> No <input type="checkbox"/></li><li>• If missing data was a cause of concern, is there empirical evidence and/or theoretical arguments for the causes of data that are missing (e.g., missing completely at random (MCAR), missing at random (MAR), or missing not at random (MNAR))?</li></ul></li></ul>

- If missing data was a cause of concern, is there empirical evidence and/or theoretical arguments for the causes of data that are missing (for example, missing completely at random (MCAR), missing at random (MAR), or missing not at random (MNAR))?

Archives of Scientific Psychology Questionnaire for Manuscripts Describing Primary Data Collections  
(Based on APA Journal Article Reporting Standards – JARS Questionnaire) 18

	<ul style="list-style-type: none"> <li>If missing data was a cause of concern, what methods, if any, were used for addressing missing data?</li> </ul> <div data-bbox="703 282 1961 496" style="border: 1px solid black; height: 170px; margin-top: 10px;"></div>
<p style="text-align: center;"><b>DISCUSSION</b></p> <p style="text-align: center;">-----</p> <p><b>Statistics and data analysis:</b></p>	<p><b><i>For the Discussion section, please indicate whether the requested information can be found in this section of the manuscript, in a supplemental file, or whether the information is not relevant to the study. If not relevant, please provide a brief explanation.</i></b></p> <ul style="list-style-type: none"> <li>Did you experience problems concerning statistical assumptions and/or data distributions that could affect the validity of findings?</li> </ul> <p>Yes <input type="checkbox"/>      No <input type="checkbox"/></p> <p>If yes, please describe:</p> <div data-bbox="703 885 1961 1101" style="border: 1px solid black; height: 170px; margin-top: 10px;"></div> <ul style="list-style-type: none"> <li>For inferential statistics (NHST), please indicate the a priori Type 1 error rate adopted:</li> </ul> <div data-bbox="703 1201 1961 1417" style="border: 1px solid black; height: 170px; margin-top: 10px;"></div>

**Archives of Scientific Psychology Questionnaire for Manuscripts Describing Primary Data Collections**  
(Based on *APA Journal Article Reporting Standards – JARS* Questionnaire) 19

- For each NHST conducted, regardless of whether significant results were obtained and regardless of whether or not reported in the text, please provide a log of the centrality (primary, secondary exploratory) of the analyses to the study's purpose, the analytic technique used, the direction, magnitude, degrees of freedom, and exact p-level associated with each test:

- For multivariable analytic systems (e.g., multivariate analyses of variance, regression analyses, structural equation modeling analyses, and hierarchical linear modeling)

- provide the associated variance-covariance (or correlation) matrix or matrices:

- describe any estimation problems (e.g., failure to converge, bad solution spaces), anomalous data points:

- identify the statistical software program, if specialized procedures were used:

**Archives of Scientific Psychology Questionnaire for Manuscripts Describing Primary Data Collections**  
(Based on *APA Journal Article Reporting Standards – JARS* Questionnaire) 20

- Is there a statement of support or nonsupport for all original hypotheses distinguished by primary and secondary hypotheses?

In manuscript ☐      In supplemental files ☐      Not relevant ☐

If not relevant, please explain:

- Are post hoc explanations proposed?

In manuscript ☐      In supplemental files ☐      Not relevant ☐

If not relevant, please explain:

- Are the similarities and differences between these results and the work of others discussed?

In manuscript ☐      In supplemental files ☐      Not relevant ☐

If not relevant, please explain:

**Archives of Scientific Psychology Questionnaire for Manuscripts Describing Primary Data Collections**  
(Based on *APA Journal Article Reporting Standards – JARS* Questionnaire) 21

- Are results interpreted taking into account
    - sources of potential bias and other threats to internal validity?
- In manuscript ☐      In supplemental files ☐      Not relevant ☐

If not relevant, please explain:

- imprecision of measures?
- In manuscript ☐      In supplemental files ☐      Not relevant ☐

If not relevant, please explain:

- the overall number of tests or overlap among tests?
- In manuscript ☐      In supplemental files ☐      Not relevant ☐

If not relevant, please explain:

**Archives of Scientific Psychology Questionnaire for Manuscripts Describing Primary Data Collections**  
(Based on *APA Journal Article Reporting Standards – JARS* Questionnaire) 22

- other limitations or weaknesses of the study?

In manuscript ☐

In supplemental files ☐

Not relevant ☐

If not relevant, please explain:

- Is the generalizability (external validity) of the findings taken into account with regard to
  - the target population?

In manuscript ☐

In supplemental files ☐

Not relevant ☐

If not relevant, please explain:

- other contextual issues?

In manuscript ☐

In supplemental files ☐

Not relevant ☐

**Archives of Scientific Psychology Questionnaire for Manuscripts Describing Primary Data Collections**  
(Based on *APA Journal Article Reporting Standards – JARS* Questionnaire) 23

	If not relevant, please explain:
	<ul style="list-style-type: none"><li>• Is there discussion of implications for future research, program, or policy</li></ul> <p>In manuscript <input type="checkbox"/>      In supplemental files <input type="checkbox"/>      Not relevant <input type="checkbox"/></p>
	If not relevant, please explain:

**JARS: EXP:** These questions should be answered for all studies with an experimental manipulation or intervention (in addition to the JARS: ALL Questionnaire)

<p><b>METHODS</b></p> <p><b><i>Experimental manipulations or interventions:</i></b></p>	<p>In the Method section of a study with an experimental manipulation or intervention, please provide the information requested below, regardless of whether it also appears in the manuscript or a supplemental file. If the information requested is irrelevant to the study, briefly explain why.</p> <ul style="list-style-type: none"> <li>Please provide the details about the experimental manipulations or interventions intended for each study condition, including control groups and specifically including             <ul style="list-style-type: none"> <li>the <b>content of the specific experimental manipulations or interventions</b>—a summary or paraphrasing of instructions (unless they are unusual or compose the manipulation, in which case they may be presented verbatim):</li> </ul> <div data-bbox="674 652 1980 854" style="border: 1px solid black; height: 124px; margin-top: 10px;"></div> </li> <li>the <b>method of manipulation or intervention delivery</b>—a description of apparatus and materials used and their function in the experiment:             <div data-bbox="674 948 1988 1055" style="border: 1px solid black; height: 66px; margin-top: 10px;"></div> <p><i>Identify specialized equipment by model and supplier:</i></p> <div data-bbox="674 1117 1988 1229" style="border: 1px solid black; height: 69px; margin-top: 10px;"></div> </li> <li>the <b>deliverers</b>, that is, who delivered the manipulations or interventions             <ul style="list-style-type: none"> <li>level of professional training:                 <div data-bbox="674 1352 1999 1442" style="border: 1px solid black; height: 55px; margin-top: 10px;"></div> </li> </ul> </li> </ul>
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**Archives of Scientific Psychology Questionnaire for Manuscripts Describing Primary Data Collections**  
(Based on *APA Journal Article Reporting Standards – JARS* Questionnaire) 25

- level of training in specific manipulations or interventions:

- the number of deliverers and, in the case of interventions, the M, SD, and range of number of individuals/units treated by each:

- the **setting**, that is, where the manipulations or interventions occurred:

- the **exposure quantity and duration**, that is, how many sessions, episodes, or events were intended to be delivered and how long they were intended to last:

- the **time span**, that is, how long it took to deliver the intervention or manipulation to each unit:

<p>-----</p> <p><b>Masking:</b></p>	<ul style="list-style-type: none"><li>activities to increase compliance or adherence (e.g. <b>incentives</b>):</li></ul> <div data-bbox="674 280 1995 397"></div> <ul style="list-style-type: none"><li>the <b>use of languages</b> other than English and the translation method:</li></ul> <div data-bbox="674 522 2005 646"></div> <p>-----</p> <ul style="list-style-type: none"><li>Were participants, those administering the interventions, and those assessing the outcomes unaware of condition assignments? Yes <input type="checkbox"/> No <input type="checkbox"/></li></ul> <p>If no, why not?</p> <div data-bbox="674 927 2005 1133"></div> <ul style="list-style-type: none"><li>If masking took place, how was it accomplished, and how was its success evaluated?</li></ul> <div data-bbox="674 1258 2011 1450"></div>
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**Archives of Scientific Psychology Questionnaire for Manuscripts Describing Primary Data Collections**  
(Based on *APA Journal Article Reporting Standards* – JARS Questionnaire) 27

<p>-----</p> <p><b><i>Units of delivery and analysis:</i></b></p>	<p>-----</p> <ul style="list-style-type: none"><li>• Unit of delivery: How were participants grouped during delivery?</li></ul> <div style="border: 1px solid black; height: 80px; margin-top: 10px;"></div> <ul style="list-style-type: none"><li>○ What was the smallest unit that was analyzed (and, in the case of experiments, that was randomly assigned to conditions) to assess manipulation or intervention effects (e.g., individuals, work groups, classes)?</li></ul> <div style="border: 1px solid black; height: 80px; margin-top: 10px;"></div> <ul style="list-style-type: none"><li>• If the unit of analysis differed from the unit of delivery, please describe the analytical method used to account for this (e.g., adjusting the standard error estimates by the design effect or using multilevel analysis):</li></ul> <div style="border: 1px solid black; height: 80px; margin-top: 10px;"></div>
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<p><b>RESULTS</b></p> <p>-----</p> <p><b>Participant flow:</b></p> <p>-----</p> <p><b>Treatment fidelity:</b></p>	<p><b>For the Results section, please indicate below the page number, table, or supplemental file in which the information can be found.</b></p> <ul style="list-style-type: none"><li>• What was the total number of groups (if the experimental manipulation or intervention was administered at the group level), and what was the number of participants assigned to each group?</li></ul> <div data-bbox="674 373 1995 610"></div> <p>-----</p> <ul style="list-style-type: none"><li>• What evidence is there that the deliverers of treatment adhered to the respective intervention manuals/guidelines?</li></ul> <div data-bbox="674 764 2005 979"></div> <ul style="list-style-type: none"><li>• What evidence is there that the treatments were delivered competently?</li></ul> <div data-bbox="674 1104 1999 1351"></div>
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***Statistics and data analysis:***

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- Were the analyses intent-to-treat ☐, complier average causal effect ☐, or other or multiple ways ☐?

Please explain:

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***Adverse events and side effects:***

- 
- Please describe all important adverse events or side effects in each experimental or intervention:

**DISCUSSION**

***For the Discussion section, please indicate below the page number, table, or supplemental file in which the information can be found.***

- Do results discussed take into account the mechanism by which the manipulation or intervention was intended to work (causal pathways) or alternative mechanisms?

Yes ☐ No ☐

If no, please explain:

- If an intervention is involved, is there discussion of the success of and barriers to implementing the intervention, and the fidelity of implementation?
- 

Yes ☐ No ☐

If no, please explain:

- Is there a discussion of the generalizability (external validity) of the findings taking into account
    - the characteristics of the intervention?
    -
- Yes ☐ No ☐

If no, please explain:

- how and what outcomes were measured?

Yes ☐      No ☐

If no, please explain:

- length of follow-up?

Yes ☐      No ☐

If no, please explain:

- incentives?

Yes ☐      No ☐

If no, please explain:

	<p>○ compliance rates?</p> <p>Yes <input type="checkbox"/>      No <input type="checkbox"/></p> <p>If no, please explain:</p>
	<p>• Is there discussion of the <b>clinical or practical significance</b> of outcomes and the basis for these interpretations?</p> <p>Yes <input type="checkbox"/>      No <input type="checkbox"/></p> <p>If no, please explain:</p>



**JARS: RCT:** These questions should be answered for all studies with an experimental manipulation or intervention that employed random assignment to experimental conditions (in addition to JAR:ALL and JARS:EXP)

<p><b>METHOD</b></p>	
<p>-----</p> <p><b>Random assignment – method:</b></p>	<p><i>In the Method section of a study that employed random assignment to experimental conditions, please provide the information requested below, regardless of whether it also appears in the manuscript or a supplemental file. If the information requested is irrelevant to the study, briefly explain why.</i></p> <ul style="list-style-type: none"> <li>What procedures were used to generate the random assignment sequence (including details of any restrictions—e.g., blocking, stratification)?</li> </ul> <div style="border: 1px solid black; height: 150px; margin-top: 10px;"></div>
<p>-----</p> <p><b>Random assignment – concealment:</b></p>	<p>-----</p> <ul style="list-style-type: none"> <li>Was the sequence concealed until experimental or intervention sequence was assigned? Yes <input type="checkbox"/> No <input type="checkbox"/></li> </ul> <p>If no, why not?</p> <div style="border: 1px solid black; height: 150px; margin-top: 10px;"></div>

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***Random assignment –  
implementation:***

- Who generated the assignment sequence?

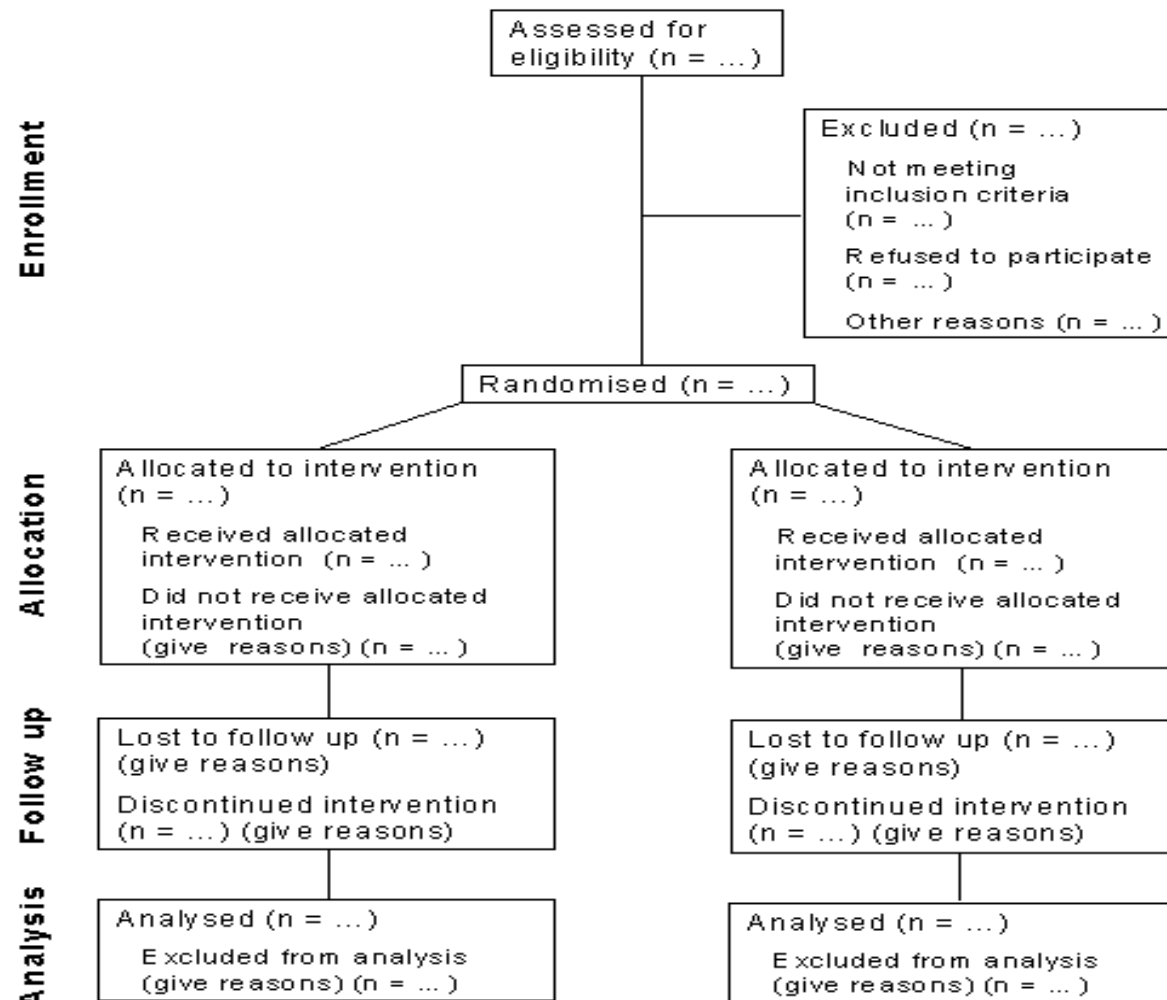
- Who enrolled participants?

- Who assigned participants to groups?

**JARS: QED:** These questions should be answered for all studies with an experimental manipulation or intervention that did not employ random assignment to experimental conditions (in addition to JARS: All and JARS: EXP).

<p><b>METHOD</b></p> <p><b>Assignment method:</b></p>	<ul style="list-style-type: none"><li>• What was the unit of assignment (the unit being assigned to study conditions—e.g., individual, group, community)? <div data-bbox="764 500 1925 708"></div></li><li>• What was the method used to assign units to study conditions, including details of any restriction (e.g., blocking, stratification, minimization)? <div data-bbox="764 829 1925 1045"></div></li><li>• What procedures were employed to help minimize potential bias due to nonrandomization (e.g., matching, propensity score matching)? <div data-bbox="764 1170 1925 1378"></div></li></ul>
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Figure 1. Diagram showing the flow of participants through each stage of a randomized trial.



**JARS: MISC:** These questions should be answered for all studies not employing an experimental manipulation or intervention (in addition to JARS: All).

Please provide below as detailed a description as possible of the research design used in the study or studies. This description should be at least as detailed than that expected in all APA journals. There is no restriction on length.