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'Estimation of Eyewitness Reliability in Fair and Biased Lineups' (AsPredicted #94590)

Author(s)

This pre-registration is currently anonymous to enable blind peer-review.
It has one author.

Pre-registered on
04/19/2022 11:56 AM (PT)

1) Have any data been collected for this study already?

No, no data have been collected for this study yet.

2) What's the main question being asked or hypothesis being tested in this study?

- (1) The observed rate of designated innocent suspect IDs will be higher in biased lineups than in fair lineups.
- (2) When the effective size correction is used, the estimated rate of innocent suspect IDs will be higher in biased lineups than in fair lineups.
- (3) When the nominal size correction is used, the estimated rate of innocent suspect IDs will not significantly differ in biased and fair lineups.

3) Describe the key dependent variable(s) specifying how they will be measured.

The key DV is the innocent suspect identification rate. We will examine 5 ways of measuring this DV:

- 1) When estimated via nominal size correction, innocent suspect identifications = all culprit-absent identifications divided by the number of lineup members.
- 2) When estimated via effective size correction, innocent suspect identifications = all culprit-absent identifications divided by the effective size of the lineup (with effective size calculated as per Quigley-McBride & Wells, 2021).
- 3) When estimated via no correction, innocent suspect identifications = all culprit-absent identifications.
- 4) When designated via description match, innocent suspect identifications = identifications of #211 in the culprit-absent lineup if #223 committed the crime or #223 in the culprit-absent lineup if #211 committed the crime.
- 5) When designated via best match, innocent suspect identifications = identifications of #160 in the culprit-absent lineup if #223 committed the crime or #254 in the culprit-absent lineup if #211 committed the crime.

4) How many and which conditions will participants be assigned to?

Participants will be assigned to one of five conditions:

- 1) Fair culprit-present (Fair fillers + guilty suspect)
- 2) Fair culprit-absent (Fair fillers + innocent suspect)
- 3) Biased culprit-present (Biased fillers + guilty suspect)
- 4) Biased culprit-absent (Biased fillers + description-match innocent suspect)
- 5) Biased culprit-absent with dead ringer (Biased fillers + best-match innocent suspect)

Note: In the fair fillers + innocent suspect condition, the best match and description-match innocent suspects are both included. Depending on the comparison, the best-match or description-match will be designated as the innocent suspect.

5) Specify exactly which analyses you will conduct to examine the main question/hypothesis.

All hypothesis tests involve comparisons between biased culprit-absent lineups and fair culprit-absent lineups and will be tested with a z test for the difference between two proportions.

For Hypothesis 1, we will conduct two tests with different DVs. The first DV will be best match innocent suspect. The second DV will be description-match innocent suspect. We predict the same pattern for both DVs.

For Hypothesis 2, the DV will be the effective-size-corrected estimate of innocent suspect IDs.

For Hypothesis 3, the DV will be the nominal-size-corrected estimate of innocent suspect IDs.

6) Describe exactly how outliers will be defined and handled, and your precise rule(s) for excluding observations.

We will exclude all participants who fail the crime video attention check.

7) How many observations will be collected or what will determine sample size?

No need to justify decision, but be precise about exactly how the number will be determined.

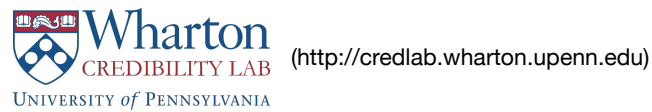
The target sample size is 1500 participants (300/condition).

8) Anything else you would like to pre-register?

(e.g., secondary analyses, variables collected for exploratory purposes, unusual analyses planned?)

The stimuli are available here: https://osf.io/b7gsu/?view_only=6bfaed7f72ac4bdca25a19872c15f93f

Version of AsPredicted Questions: 2.00



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