

## STREGA Reporting Recommendations, Extended from STROBE Statement

Item	Item No	Description	Reported on Page Number/Line Number	Reported on Section/Paragraph
Title and Abstract	1	(a) Indicate the study's design with a commonly used term in the title or the abstract.	page 1, line2-4	title
		(b) Provide in the abstract an informative and balanced summary of what was done and what was found.	Page 1-2, line 27-51	abstract
<b>Introduction</b>				
Background rationale	2	Explain the scientific background and rationale for the investigation being reported.	page 2-3, line 58-79	introduction/paragraph 1-2
Objectives	3	State specific objectives, including any pre-specified hypotheses. <i>(State if the study is the first report of a genetic association, a replication effort, or both.)</i>	page 3,line 80-89	introduction/paragraph3
<b>Methods</b>				
Study design	4	Present key elements of study design early in the paper.	page 3,line 94-99	methods/paragraph 1
Setting	5	Describe the setting, locations and relevant dates, including periods of recruitment, exposure, follow-up, and data collection.	page 3-4,line 102-112	methods/paragraph 2
Participants	6	(a) <b>Cohort study</b> – Give the eligibility criteria, and the sources and methods of selection of participants. Describe methods of follow-up. <b>Case-control study</b> – Give the eligibility criteria, and the sources and methods of case ascertainment and control selection. Give the rationale for the choice of cases and controls. <b>Cross-sectional study</b> – Give the eligibility criteria, and the sources and methods of selection of participants. <i>(Give information on the criteria and methods for selection of subsets of participants from a larger study, when relevant.)</i>	page 3-4,line 102-112	methods/paragraph 2
		(b) <b>Cohort study</b> – For matched studies, give matching criteria and number of exposed and unexposed. <b>Case-control study</b> – For matched studies, give matching criteria and the number of controls per case.	page 3-4,line 102-112	methods/paragraph 2
Variables	7	(a) Clearly define all outcomes, exposures, predictors, potential confounders, and effect modifiers. Give diagnostic criteria, if applicable. (b) Clearly define genetic exposures (genetic variants) using a widely-used nomenclature system. Identify variables likely to be associated with population stratification (confounding by ethnic origin).	page 3-4,line 102-112	methods/paragraph 2

Data sources/ measurement	8*	(a) For each variable of interest, give sources of data and details of methods of assessment (measurement). Describe comparability of assessment methods if there is more than one group. (b) Describe laboratory methods, including source and storage of DNA, genotyping methods and platforms (including the allele calling algorithm used, and its version), error rates and call rates. State the laboratory/centre where genotyping was done. Describe comparability of laboratory methods if there is more than one group. Specify whether genotypes were assigned using all of the data from the study simultaneously or in smaller batches.	page 3-4,line 102-112	methods/paragraph 2
Bias	9	(a) Describe any efforts to address potential sources of bias. (b) or quantitative outcome variables, specify if any investigation of potential bias resulting from pharmacotherapy was undertaken. If relevant, describe the nature and magnitude of the potential bias, and explain what approach was used to deal with this.	page 3-4,line 102-112	methods/paragraph 2
Study size	10	Explain how the study size was arrived at.	page 3-4,line 102-112	methods/paragraph 2
Quantitative variables	11	Explain how quantitative variables were handled in the analyses. If applicable, describe which groupings were chosen, and why. <i>(If applicable, describe how effects of treatment were dealt with.)</i>	page 3-4,line 102-112	methods/paragraph 2
Statistical methods	12	(a) Describe all statistical methods, including those used to control for confounding. <i>[State software version used and options (or settings) chosen.]</i>	page 3-5,line 94-150	methods/paragraph 1-6
		(b) Describe any methods used to examine subgroups and interactions.	page 3-5,line 94-150	methods/paragraph 1-6
		(c) Explain how missing data were addressed.	page 3-5,line 94-150	methods/paragraph 1-6
		(d) <b>Cohort study</b> – If applicable, explain how loss to follow-up was addressed. <b>Case-control study</b> – If applicable, explain how matching of cases and controls was addressed. <b>Cross-sectional study</b> – If applicable, describe analytical methods taking account of sampling strategy.	page 3-4,line 102-112	methods/paragraph 2
		(e) Describe any sensitivity analyses.	page 3-5,line 94-150	methods/paragraph 1-6
		(f) State whether Hardy-Weinberg equilibrium was considered and, if so, how.	page 3-5,line 94-150	methods/paragraph 1-6
		(g) Describe any methods used for inferring genotypes or haplotypes.	page 3-5,line 94-150	methods/paragraph 1-6
		(h) Describe any methods used to assess or address population stratification.	page 3-5,line 94-150	methods/paragraph 1-6
		(i) Describe any methods used to address multiple comparisons or to control risk of false positive findings.	page 3-5,line 94-150	methods/paragraph 1-6
		(j) Describe any methods used to address and correct for relatedness among subjects	page 3-5,line 94-150	methods/paragraph 1-6

<b>Results</b>				
Participants	13*	(a) Report the numbers of individuals at each stage of the study – e.g., numbers potentially eligible, examined for eligibility, confirmed eligible, included in the study, completing follow-up, and analysed. <i>(Report numbers of individuals in whom genotyping was attempted and numbers of individuals in whom genotyping was successful).</i>	page 3-4,line 102-112	methods/paragraph 1-6
		(b) Give reasons for non-participation at each stage.	page 3-4,line 102-112	methods/paragraph 1-6
		(c) Consider use of a flow diagram.	page 3-4,line 102-112	methods/paragraph 1-6
Descriptive data	14*	(a) Give characteristics of study participants (e.g., demographic, clinical, social) and information on exposures and potential confounders. <i>(Consider giving information by genotype.)</i>	page 3-4,line 102-112	methods/paragraph 1-6
		(b) Indicate the number of participants with missing data for each variable of interest.	page 3-4,line 102-112	methods/paragraph 1-6
		(c) <b>Cohort study</b> – Summarize follow-up time (e.g., average and total amount).	page 3-4,line 102-112	methods/paragraph 1-6
Outcome data	15*	<b>Cohort study</b> – Report numbers of outcome events or summary measures over time. <i>[Report outcomes (phenotypes) for each genotype category over time]</i>	page 3-4,line 102-112	methods/paragraph 1-6
		<b>Case-control study</b> – Report numbers in each exposure category, or summary measures of exposure. <i>(Report numbers in each genotype category)</i>	NA	not covered
		<b>Cross-sectional study</b> – Report numbers of outcome events or summary measures. <i>[Report outcomes (phenotypes) for each genotype category]</i>	NA	not covered
Main results	16	(a) Give unadjusted estimates and, if applicable, confounder-adjusted estimates and their precision (e.g., 95% confidence intervals). Make clear which confounders were adjusted for and why they were included.	page 5-7,line 161-216	result/paragraph 1-6
		(b) Report category boundaries when continuous variables were categorized.	page 5-7,line 161-216	result/paragraph 1-6
		(c) If relevant, consider translating estimates of relative risk into absolute risk for a meaningful time period.	page 5-7,line 161-216	result/paragraph 1-6
		(d) Report results of any adjustments for multiple comparisons.	page 5-7,line 161-216	result/paragraph 1-6
Other analyses	17	(a) Report other analyses done – e.g., analyses of subgroups and interactions, and sensitivity analyses.	NA	not covered
		(b) If numerous genetic exposures (genetic variants) were examined, summarize results from all analyses undertaken.	NA	not covered
		(c) If detailed results are available elsewhere, state how they can be accessed.	NA	not covered
<b>Discussion</b>				
Key results	18	Summarize key results with reference to study objectives.	page 9,line 293-298	conclusion/paragraph 1

Limitations	19	Discuss limitations of the study, taking into account sources of potential bias or imprecision. Discuss both direction and magnitude of any potential bias.	page 9,line 289-290.	discussion/paragraph 4
Interpretation	20	Give a cautious overall interpretation of results considering objectives, limitations, multiplicity of analyses, results from similar studies, and other relevant evidence.	page 7-9,line 220-290.	discussion/paragraph 1-4
Generalizability	21	Discuss the generalizability (external validity) of the study results.	page 7-9,line 220-290.	discussion/paragraph 1-4
<b>Other Information</b>				
Funding	22	Give the source of funding and the role of the funders for the present study and, if applicable, for the original study on which the present article is based.	Funding	Funding

**From:** Little J, Higgins JPT, Ioannidis JPA, Moher D, Gagnon F, et al. (2009) STrengthening the REporting of Genetic Association Studies (STREGA)—An extension of the STROBE Statement. PLoS Med 6(2): e1000022. doi:10.1371/journal.pmed.1000022

\* Give information separately for cases and controls in case-control studies and, if applicable, for exposed and unexposed groups in cohort and cross-sectional studies.

Article information: <https://dx.doi.org/10.21037/atm-22-5391>

\*As the checklist was provided upon initial submission, the page number/line number reported may be changed due to copyediting and may not be referable in the published version. In this case, the section/paragraph may be used as an alternative reference.