Item No	Recommendation	Location in study
1		Abstract
	in the title or the abstract	
	(b) Provide in the abstract an informative and balanced	Abstract
	summary of what was done and what was found	
2	Explain the scientific background and rationale for the	Introduction
	investigation being reported	
3	State specific objectives, including any prespecified	Introduction
	hypotheses	
4	Present key elements of study design early in the paper	Methods
5		Methods
	collection	
6	(a) Cohort study—Give the eligibility criteria, and the	Methods
	methods of follow-up	
	Case-control study—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	
	Cross-sectional study—Give the eligibility criteria, and the	
	sources and methods of selection of participants	
	(b) Cohort study—For matched studies, give matching	N/A
	criteria and number of exposed and unexposed	
	Case-control study—For matched studies, give matching	
	criteria and the number of controls per case	
7	Clearly define all outcomes, exposures, predictors, potential	Methods
	confounders, and effect modifiers. Give diagnostic criteria,	
	if applicable	
8*	For each variable of interest, give sources of data and	Methods
	details of methods of assessment (measurement). Describe	
	comparability of as sessment methods if there is more than	
	one group	
9	Describe any efforts to address potential sources of bias	N/A
10	Explain how the study size was arrived at	Methods
11	Explain how quantitative variables were handled in the	Methods
	analyses. If applicable, describe which groupings were	
	chosen and why	
12	(a) Describe all statistical methods, including those used to	Methods
	control for confounding	
	(b) Describe any methods used to examine subgroups and	N/A
	No 1 2 3 4 5 6 7 8*	(a) Indicate the study's design with a commonly used term in the title or the abstract (b) Provide in the abstract an informative and balanced summary of what was done and what was found

		(c) Explain how missing data were addressed	N/A
		(d) Cohort study—If applicable, explain how loss to follow-	N/A
		up was addressed	
		Case-control study—If applicable, explain how matching of	
		cases and controls was addressed	
		Cross-sectional study—If applicable, describe analytical	
		methods taking account of sampling strategy	
		(e) Describe any sensitivity analyses	N/A
Results			
Participants	13*	(a) Report numbers of individuals at each stage of study—eg	Results
		numbers potentially eligible, examined for eligibility,	
		confirmed eligible, included in the study, completing follow-	
		up, and analysed	
		(b) Give reasons for non-participation at each stage	Results
		(c) Consider use of a flow diagram	Results
Descriptive	14*	(a) Give characteristics of study participants (eg	Results
data		demographic, clinical, social) and information on exposures	
		and potential confounders	
		(b) Indicate number of participants with missing data for	N/A
		each variable of interest	
		(c) Cohort study—Summarise follow-up time (eg, average	Results
		and total amount)	
Outcome data	15*	Cohort study—Report numbers of outcome events or	Results
		summary measures over time	
		Case-control study—Report numbers in each exposure	
		category, or summary measures of exposure	
		Cross-sectional study—Report numbers of outcome events	
		or summary measures	
Main results	16	(a) Give unadjusted estimates and, if applicable, confounder-	Decults
TVIAIT TOS AILS			Results
		adjusted estimates and their precision (eg, 95% confidence	Results
		adjusted estimates and their precision (eg, 95% confidence interval). Make clear which confounders were adjusted for	Results
			Results
		interval). Make clear which confounders were adjusted for and why they were included	Results
		interval). Make clear which confounders were adjusted for	
		interval). Make clear which confounders were adjusted for and why they were included (b) Report category boundaries when continuous variables	
		interval). Make clear which confounders were adjusted for and why they were included (b) Report category boundaries when continuous variables were categorized	Results
Other analy ses	17	interval). Make clear which confounders were adjusted for and why they were included (b) Report category boundaries when continuous variables were categorized (c) If relevant, consider translating estimates of relative risk	Results
Otheranalyses	17	interval). Make clear which confounders were adjusted for and why they were included (b) Report category boundaries when continuous variables were categorized (c) If relevant, consider translating estimates of relative risk into absolute risk for a meaningful time period	Results N/A
-	17	interval). Make clear which confounders were adjusted for and why they were included (b) Report category boundaries when continuous variables were categorized (c) If relevant, consider translating estimates of relative risk into absolute risk for a meaningful time period Report other analyses done—eg analyses of subgroups and	Results N/A
Discussion	17	interval). Make clear which confounders were adjusted for and why they were included (b) Report category boundaries when continuous variables were categorized (c) If relevant, consider translating estimates of relative risk into absolute risk for a meaningful time period Report other analyses done—eg analyses of subgroups and	Results N/A
Discussion Key results		interval). Make clear which confounders were adjusted for and why they were included (b) Report category boundaries when continuous variables were categorized (c) If relevant, consider translating estimates of relative risk into absoluterisk for a meaningful time period Report other analyses done—eg analyses of subgroups and interactions, and sensitivity analyses	Results N/A Results
Discussion Key results	18	interval). Make clear which confounders were adjusted for and why they were included (b) Report category boundaries when continuous variables were categorized (c) If relevant, consider translating estimates of relative risk into absolute risk for a meaningful time period Report other analyses done—eg analyses of subgroups and interactions, and sensitivity analyses Summarise key results with reference to study objectives Discuss limitations of the study, taking into account sources of	Results N/A Results Discussion
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Other analyses Discussion Key results Limitations Interpretation	18 19	interval). Make clear which confounders were adjusted for and why they were included (b) Report category boundaries when continuous variables were categorized (c) If relevant, consider translating estimates of relative risk into absolute risk for a meaningful time period Report other analyses done—eg analyses of subgroups and interactions, and sensitivity analyses Summarise key results with reference to study objectives Discuss limitations of the study, taking into account sources of potential bias or imprecision. Discuss both direction and	Results N/A Results Discussion Discussion

Generalisability	21	Discuss the generalisability (external validity) of the study results	Discussion			
Other information						
Funding	22	Give the source of funding and the role of the funders for the	Funding			
		present study and, if applicable, for the original study on which				
		the present article is based				

^{*}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.

Note: An Explanation and Elaboration article discusses each checklist itemand gives methodological background and published examples of transparent reporting. The STROBE checklist is best used in conjunction with this article (freely available on the Web sites of PLoS Medicine at http://www.plosmedicine.org/, Annals of Internal Medicine at http://www.annals.org/, and Epidemiology at http://www.epidem.com/). Information on the STROBE Initiative is available at www.strobe-statement.org.