Section/item	ltem No	Recommendation	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/Title	Title Abstract section
		(b) Provide in the abstract an informative and balanced summary of what was done and what was found	Page 2/Line 4-19	Abstract section
Introduction				
Background/ rationale	2	Explain the scientific background and rationale for the investigation being reported	Page 1/Line1-4 Page 2/Line 1-3	Background
				section
Objectives	3	State specific objectives, including any prespecified hypotheses	Page 1/Line1-4 Page 2/Line 1-3	Background section
Methods			·	
Study design	4	Present key elements of study design early in the paper	Page 2/Line 4-8	Method-Study design and aviable section
Setting	5	Describe the setting, locations, and relevant dates, including periods of recruitment, exposure, follow-up, and data collection	Page 2/Line 4-8	Method-Participant
				section
Participants	6	<ul> <li>(a) Cohort study—Give the eligibility criteria, and the sources and methods of selection of participants. Describe methods of follow-up</li> <li>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</li> <li>Cross-sectional study—Give the eligibility criteria, and the sources and methods of selection of participants</li> </ul>	Page 4/Line 4-15 Figure 1	Method-Participant
				section
		(b) Cohort study—For matched studies, give matching criteria and number of exposed and unexposed Case-control study—For matched studies, give matching criteria and the number of controls per case	NA	NA

## STROBE Statement-checklist of items that should be included in reports of observational studies

Variables	7	Clearly define all outcomes, exposures, predictors, potential confounders, and effect modifiers. Give diagnostic criteria, if applicable	Page5 /line3-12	Method-Study
				design and aviable
				section
Data sources/ measurement	8*	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	Page5 /line3-12	Method-Study
				design and aviable
				section
Bias	9	Describe any efforts to address potential sources of bias	Page5 /line10-12	Study design and variables section
Study size	10	Explain how the study size was arrived at	Figure 4	Figure 4
Quantitative variables	11	Explain how quantitative variables were handled in the analyses. If applicable, describe which groupings were chosen and why	Page5 /line3-12	Method-Study
				design and aviable
				section

Ctatistical	12	(a) Describe all statistical methods, including these used to control for confounding	Page5 /line13-17	Statistical analysis
Statistical methods	12	(a) Describe all statistical methods, including those used to control for confounding	Page6 /line1-2	section
		(b) Describe any methods used to examine subgroups and interactions	Page5 /line13-17 Page6 /line1-2	Statistical analysis section
		(c) Explain how missing data were addressed	Page5 /line11-12	Study design and variables section
		(d) Cohort study—If applicable, explain how loss to follow-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	Page5 /line3-12	Study design and
				Variables section
		(e) Describe any sensitivity analyses	Page5 /line13-17 Page6 /line1-2	Statistical analysis section
Results				
Participants	13*	(a) Report numbers of individuals at each stage of study—eg numbers potentially eligible, examined for eligibility, confirmed eligible, included in the study, completing follow-up, and analysed	Page6 /line4-6- Table 1-Figure 2-4	Results-Clinical
				characteristics of
				the enrolled
				patients section
		(b) Give reasons for non-participation at each stage	Figure 1	Figure 1
		(c) Consider use of a flow diagram	Figure 1	Figure 1
Descriptive data	14*	(a) Give characteristics of study participants (eg demographic, clinical, social) and information on exposures and potential confounders	Table 1 Page6 /line4-12	Results-Clinical
				characteristics of
				the enrolled
				patients section
		(b) Indicate number of participants with missing data for each variable of interest	Page5 /line11-12	Study design and variables section

		(c) Cohort study—Summarise follow-up time (eg, average and total amount)	Page5 /line3-12	Study design and variables section
Outcome data	15*	Cohort study-Report numbers of outcome events or summary measures over time	Table 2,Figure1-4	Table 2,Figure1-4
		Case-control study-Report numbers in each exposure category, or summary measures of exposure	Not case-control study	Not case-control study
		Cross-sectional study—Report numbers of outcome events or summary measures	Not cross-sectional study	Not cross-sectional study
Main results	16	(a) Give unadjusted estimates and, if applicable, confounder-adjusted estimates and their precision (eg, 95% confidence interval). Make clear which confounders were adjusted for and why they were included	Page6 /line13-22	Results - NRS
				score and dosage
				of Morphine after
				MWA section
		(b) Report category boundaries when continuous variables were categorized	Page5 /line3-12	Study design and variables section

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		(c) If relevant, consider translating estimates of relative risk into absolute risk for a meaningful time period	Page5 /line13-17 Page6 /line1-2	Statistical analysis section			
Other analyses	17	Report other analyses done—eg analyses of subgroups and interactions, and sensitivity analyses	Page5 /line13-17 Page6 /line1-2	Statistical analysis section			
Discussion	Discussion						
Key results	18	Summarise key results with reference to study objectives	Page9 /line7-13	Results-Discussion section			
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	Page9 /line12-13	Discussion section			

Interpretation	20	Give a cautious overall interpretation of results considering objectives, limitations, multiplicity of analyses, results from similar studies, and other relevant evidence	Page9 /line7-13	Discussion section		
Generalisability	21	Discuss the generalisability (external validity) of the study results	Page9 /line7-13	Discussion section		
Other information						
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	Page9 /line14-19	Acknowledgement		
				section		

\*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 item and 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.

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\*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.

Updated on April 13, 2020