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

	Item No	Recommendation
Title and abstract	1	(a) Indicate the study's design with a commonly used term in the title or the
		abstract
		Text: See line 16-18
		(b) Provide in the abstract an informative and balanced summary of what was done
		and what was found
		Text: See entire abstract
Introduction		
Background/rationale	2	Explain the scientific background and rationale for the investigation being reported
		Text: See line 32-47
Objectives	3	State specific objectives, including any prespecified hypotheses
		Text: See line 47-50
Methods		
Study design	4	Present key elements of study design early in the paper
		Text: See line 56-57
Setting	5	Describe the setting, locations, and relevant dates, including periods of
C		recruitment, exposure, follow-up, and data collection
		Text: See line 56-72
Participants	6	Cohort study—Give the eligibility criteria, and the sources and methods of
		selection of participants. Describe methods of follow-up
		Text: See line 56-72
		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 criteria and number of
		exposed and unexposed
		Case-control study—For matched studies, give matching criteria and the number
		of controls per case
Variables	7	Clearly define all outcomes, exposures, predictors, potential confounders, and
		effect modifiers. Give diagnostic criteria, if applicable
		Text: See line 73-79
Data sources/	8*	For each variable of interest, give sources of data and details of methods of
measurement		assessment (measurement). Describe comparability of assessment methods if there
		is more than one group
		Text: See line 73-79
Bias	9	Describe any efforts to address potential sources of bias
		Text: See line 60-61
		Text: See line 162-181
Study size	10	Explain how the study size was arrived at
		Text: See line 56-61
		Text: See Figure 1

Quantitative variables	11	Explain how quantitative variables were handled in the analyses. If applicable,
		describe which groupings were chosen and why
		Text: See line 73-79
		Text: See line 81-88
Statistical methods	12	(a) Describe all statistical methods, including those used to control for
		confounding
		Text: See line 81-88
		(b) Describe any methods used to examine subgroups and interactions
		Text: See line 85-88
		(c) Explain how missing data were addressed
		Text: Missing data was excluded. See line 61-61 + Figure 1. Only menarchal
		status was with missing data (Table 1-3). Since these numbers were low and
		hence without major impact, we decided not to explain this further in the
		hence without major impact, we decided not to explain this further in the manuscript.
		manuscript.
		manuscript.(d) Cohort study—If applicable, explain how loss to follow-up was addressed
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		manuscript. (d) Cohort study—If applicable, explain how loss to follow-up was addressed Text: Missing data was excluded. See line 60-61 + Figure 1 Case-control study—If applicable, explain how matching of cases and controls was addressed Cross-sectional study—If applicable, describe analytical methods taking account

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
		Text: See line 90-92 + Figure 1
		(b) Give reasons for non-participation at each stage
		Text: See line 90-92 + Figure 1
		(c) Consider use of a flow diagram
		Text: Figure 1
Descriptive	14*	(a) Give characteristics of study participants (eg demographic, clinical, social) and
data		information on exposures and potential confounders
		Text: See line 92-94 + Table 1
		(b) Indicate number of participants with missing data for each variable of interest
		Text: See Table 1-3 + Figure 1. Only menarchal status was with missing data (Table 1-
		3). Since these numbers were low and hence without major impact, we decided not to
		explain this further in the manuscript.
		(c) Cohort study—Summarise follow-up time (eg, average and total amount)
		Text: See line 67-72 + Table 3 (age). In Table 1-3 the field "fusion surgery performed
		at 2-year follow-up" was evaluated through medical journals and is exactly two-years
		post brace treatment for all patients. Therefore, specifying further is not needed.
Outcome data	15*	Cohort study-Report numbers of outcome events or summary measures over time
		Text: See line 89-101 + Table 1-3
		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-adjusted estimates and their
		precision (eg, 95% confidence interval). Make clear which confounders were adjusted for
		and why they were included
		Text: See line 92-108 + Table 1-4. Not relevant to double report adjusted confounders
		in both text and table 4. Therefore we report the main finding in the text and
		additional information can be seen in table 4. Adjusted variables are known predictors
		in the field of Spine (via literature) and does not require further explanation.
		(b) Report category boundaries when continuous variables were categorized
		Text: See Table 1-3
		(c) If relevant, consider translating estimates of relative risk into absolute risk for a
		meaningful time period
		Not applicable
Other analyses	17	Report other analyses done-eg analyses of subgroups and interactions, and sensitivity
		analyses
		Text: See line 95-108
Discussion		
Key results	18	Summarise key results with reference to study objectives
		Text: See line 110-115
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
		Text: See line 162-181

Interpretation	20	Give a cautious overall interpretation of results considering objectives, limitations, multiplicity of analyses, results from similar studies, and other relevant evidence Text: See line 183-191
Generalisability	21	Discuss the generalisability (external validity) of the study results
		Text: See line 56-72.
		The study follows the widely accepted inclusion criteria presented by Richards et al. in
		"Standardization of Criteria for Adolescent Idiopathic scoliosis Brace Studies". DOI:
		10.1097/01.brs.0000178819.90239.d0.
		Further explanation is not necessary and does not need to be written in the text.
Other informati	on	
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
		Not applicable for the current study

*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.