The RECORD statement – checklist of items, extended from the STROBE statement, that should be reported in observational studies using routinely collected health data.

	Item No.	STROBE items	Location in manuscript where items are reported	RECORD items	Location in manuscript where items are reported
Title and abstra	ct		T		
	1	(a) Indicate the study's design with a commonly used term in the title or the abstract (b) Provide in		RECORD 1.1: The type of data used should be specified in the title or abstract. When possible, the name of the databases used should be included.	Title page of manuscript.
		the abstract an informative and balanced summary of what was done and what was found		RECORD 1.2: If applicable, the geographic region and timeframe within which the study took place should be reported in the title or abstract.	Title page of manuscript, abstract lines 10-11.
				RECORD 1.3: If linkage between databases was conducted for the study, this should be clearly stated in the title or abstract.	N/A
Introduction			1		
Background rationale	2	Explain the scientific background and rationale for the investigation being reported			Background, lines 31-47
Objectives	3	State specific objectives, including any prespecified hypotheses			Background, lines 48-56
Methods		T = -	1		
Study Design	4	Present key elements of study design early in the paper			Methods, lines 86-100

Setting	5	Describe the setting, locations, and relevant dates, including		Methods, lines 86-90
		periods of		
		recruitment, exposure,		
		follow-up, and data		
		collection		
Participants	6	(a) Cohort study -	RECORD 6.1: The methods of study	Methods, lines 61-83
		Give the eligibility	population selection (such as codes or	
		criteria, and the	algorithms used to identify subjects)	
		sources and methods	should be listed in detail. If this is not	
		of selection of	possible, an explanation should be	
		participants. Describe	provided.	
		methods of follow-up		
		Case-control study -	RECORD 6.2: Any validation studies	Limitations, lines 250-254
		Give the eligibility	of the codes or algorithms used to	
		criteria, and the	select the population should be	
		sources and methods	referenced. If validation was	
		of case ascertainment	conducted for this study and not	
		and control selection.	published elsewhere, detailed methods	
		Give the rationale for	and results should be provided.	
		the choice of cases		
		and controls	RECORD 6.3: If the study involved	N/A
		Cross-sectional study	linkage of databases, consider use of a	
		- Give the eligibility	flow diagram or other graphical	
		criteria, and the	display to demonstrate the data linkage	
		sources and methods	process, including the number of	
		of selection of	individuals with linked data at each	
		participants	stage.	
		(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	RECORD 7.1: A complete list of	Methods, lines 81-83
		outcomes, exposures,	codes and algorithms used to classify	
		predictors, potential	exposures, outcomes, confounders,	
		confounders, and	and effect modifiers should be	
		effect modifiers. Give	provided. If these cannot be reported,	
		diagnostic criteria, if	an explanation should be provided.	
		applicable.		
Data sources/	8	For each variable of		N/A
measurement		interest, give sources		
		of data and details of		
		methods of		
		assessment		
		(measurement).		
		Describe		
		comparability of		
		assessment methods if		
		there is more than one		
		group		
Bias	9	Describe any efforts		Limitations, lines 255-269
		to address potential		
		sources of bias		
Study size	10	Explain how the study		N/A
		size was arrived at		
Quantitative	11	Explain how		Methods, lines 67-80 and 88-90
variables		quantitative variables		
		were handled in the		
		analyses. If		
		applicable, describe		
		which groupings were		
		chosen, and why		
Statistical	12	(a) Describe all		Methods, lines 85-100
methods		statistical methods,		
		including those used		
		to control for		
		confounding		
L				

	(b) Describe any		N/A
	methods used to		
	examine subgroups		
	and interactions		
	(c) Explain how		N/A
	missing data were		
	addressed		
	(d) Cohort study - If		N/A
	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		
	(e) Describe any		
	sensitivity analyses		
Data access and		RECORD 12.1: Authors should	Methods, lines 61-66
cleaning methods		describe the extent to which the	
		investigators had access to the	
		database population used to create the	
		study population.	
		RECORD 12.2: Authors should	Methods, lines 61-80
		provide information on the data	,
		cleaning methods used in the study.	
Linkage		RECORD 12.3: State whether the	N/A
		study included person-level,	
		institutional-level, or other data	
		linkage across two or more databases.	
		The methods of linkage and methods	

			of linkage quality evaluation should be provided.	
Results			providual	
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) (b) Give reasons for non-participation at each stage. (c) Consider use of a flow diagram	RECORD 13.1: Describe in detail the selection of the persons included in the study ( <i>i.e.</i> , study population selection) including filtering based on data quality, data availability and linkage. The selection of included persons can be described in the text and/or by means of the study flow diagram.	Methods, lines 61-80
Descriptive data	14	(a) Give characteristics of study participants (e.g., demographic, clinical, social) and information on exposures and potential confounders (b) Indicate the number of participants with missing data for each variable of interest (c) Cohort study - summarise follow-up time (e.g., average and total amount)		N/A

Outcome data	15	Cohort study - Report numbers of outcome events or 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-adjusted estimates and their precision (e.g., 95% confidence 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		N/A
		for a meaningful time period		
Other analyses	17	Report other analyses done—e.g., analyses of subgroups and		

		interactions, and		
		sensitivity analyses		
Discussion				
Key results	18	Summarise key results with reference to study objectives		Discussion, lines 176-183
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	RECORD 19.1: Discuss the implications of using data that were not created or collected to answer the specific research question(s). Include discussion of misclassification bias, unmeasured confounding, missing data, and changing eligibility over time, as they pertain to the study being reported.	Limitations, lines 246-269
Interpretation	20	Give a cautious overall interpretation of results considering objectives, limitations, multiplicity of analyses, results from similar studies, and other relevant evidence		
Generalisability	21	Discuss the generalisability (external validity) of the study results		
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		Title page

Accessibility of	 RECORD 22.1: Authors should Additional information, line 284
protocol, raw	provide information on how to access
data, and	any supplemental information such as
programming	the study protocol, raw data, or
code	programming code.

<sup>\*</sup>Reference: Benchimol EI, Smeeth L, Guttmann A, Harron K, Moher D, Petersen I, Sørensen HT, von Elm E, Langan SM, the RECORD Working Committee. The REporting of studies Conducted using Observational Routinely-collected health Data (RECORD) Statement. *PLoS Medicine* 2015; in press.

<sup>\*</sup>Checklist is protected under Creative Commons Attribution (CC BY) license.