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 abstrac	ct				
	1	(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		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. RECORD 1.2: If applicable, the geographic region and timeframe within which the study took place should be reported in the title or abstract. RECORD 1.3: If linkage between databases was conducted for the study, this should be clearly stated in the title or abstract.	Page 1 and 2
Introduction					
Background rationale	2	Explain the scientific background and rationale for the investigation being reported			Page 3 and 4
Objectives	3	State specific objectives, including any prespecified hypotheses			Page 4
Methods					
Study Design	4	Present key elements of study design early in the paper			Page 5
Setting	5	Describe the setting, locations, and relevant dates, including periods of recruitment, exposure, follow-up, and data collection			Page 5 and 6

Participants	6	(a) Cohort study - Give the eligibility criteria, and the sources and methods of selection of participants. Describe 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 criteria and number of exposed and unexposed Case-control study - For matched studies, give matching criteria and the number of	RECORD 6.1: The methods of study population selection (such as codes or algorithms used to identify subjects) should be listed in detail. If this is not possible, an explanation should be provided. RECORD 6.2: Any validation studies of the codes or algorithms used to select the population should be referenced. If validation was conducted for this study and not published elsewhere, detailed methods and results should be provided. RECORD 6.3: If the study involved linkage of databases, consider use of a flow diagram or other graphical display to demonstrate the data linkage process, including the number of individuals with linked data at each stage.	Page 5 and 6
Variables	7	controls per case Clearly define all outcomes, exposures, predictors, potential confounders, and effect modifiers. Give diagnostic criteria, if applicable.	RECORD 7.1: A complete list of codes and algorithms used to classify exposures, outcomes, confounders, and effect modifiers should be provided. If these cannot be reported, an explanation should be provided.	Page 6 and 7 Code list available online
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		

Bias	9	Describe any efforts to address potential sources of bias		Page 7 and 8
Study size	10	Explain how the study size was arrived at		Page 9
Quantitative variables	11	Explain how quantitative variables were handled in the analyses. If applicable, describe which groupings were chosen, and why		Page 7
Statistical methods	12	(a) Describe all statistical methods, including those used to control for confounding (b) Describe any methods used to examine subgroups and interactions (c) Explain how missing data were addressed (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 (e) Describe any sensitivity analyses		Page 7 and 8
Data access and cleaning methods			RECORD 12.1: Authors should describe the extent to which the investigators had access to the database population used to create the study population.	Page 5 and 20

			DECORD 12.2 A 4 1 1 11	
			RECORD 12.2: Authors should	
			provide information on the data	
			cleaning methods used in the study.	
Linkage			RECORD 12.3: State whether the	Page 5
			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		<u> </u>	provide	
Participants	13	(a) Report the numbers of	RECORD 13.1: Describe in detail the	Page 5, 6 and 9
•		individuals at each stage of the	selection of the persons included in the	and supplemental
		study (e.g., numbers potentially	study (<i>i.e.</i> , study population selection)	material figure S1
		eligible, examined for eligibility,	including filtering based on data	S
		confirmed eligible, included in	quality, data availability and linkage.	
		the study, completing follow-up,	The selection of included persons can	
		and analysed)	be described in the text and/or by	
		(b) Give reasons for non-	means of the study flow diagram.	
		participation at each stage.	income of the study from thanking	
		(c) Consider use of a flow		
		diagram		
Descriptive data	14	(a) Give characteristics of study		Page 9, table 1
Descriptive data	17	participants (e.g., demographic,		and supplemental
		clinical, social) and information		material table S1
		· /		material table 51
		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		
	1.5	total amount)		
Outcome data	15	Cohort study - Report numbers		Page 9 and 10,
		of outcome events or summary		table 2
		measures over time		
		Case-control study - Report		
		numbers in each exposure		

		category, or summary measures of exposure <i>Cross-sectional study</i> - Report numbers of outcome events or summary measures		
Main results	16	(a) Give unadjusted estimates and, if applicable, confounderadjusted 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 for a meaningful time period		Page 9 to 11, table 2, figure 1 and 2
Other analyses	17	Report other analyses done— e.g., analyses of subgroups and interactions, and sensitivity analyses		Page 11 to 13, supplemental material figure S2 to S9
Discussion				
Key results	18	Summarise key results with reference to study objectives		Page 14
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.	Page 18
Interpretation	20	Give a cautious overall interpretation of results considering objectives,		Page 14 to 19

		limitations, multiplicity of analyses, results from similar studies, and other relevant evidence		
Generalisability	21	Discuss the generalisability (external validity) of the study results		Page 18
Other Information	n			
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		Page 20
Accessibility of protocol, raw data, and programming code			RECORD 22.1: Authors should provide information on how to access any supplemental information such as the study protocol, raw data, or programming code.	Page 20, and code lists are available online

^{*}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.

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