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

	Item	STROBE items	Location in	RECORD items	Location in
	No.		manuscript where		manuscript
			items are reported		where items are
T:41 1 -14	4				reported
Title and abstrac	1 4			DECORD 1.1 TH. C.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	(a) Title page (b) viii	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.	p. viii p. viii
				RECORD 1.3: If linkage between databases was conducted for the study, this should be clearly stated in the title or abstract.	not mentioned
Introduction	T -		1		
Background rationale	2	Explain the scientific background and rationale for the investigation being reported			p. 1-3
Objectives	3	State specific objectives, including any prespecified hypotheses			p. 2,3
Methods					
Study Design	4	Present key elements of study design early in the paper			p.15,16
Setting	5	Describe the setting, locations, and relevant dates, including periods of recruitment, exposure, follow-up, and data collection			p. 15,16 p. 30,31
Participants	6	(a) Cohort study - Give the eligibility criteria, and the		RECORD 6.1: The methods of study population selection (such as codes or	

		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 controls per case	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.	Cross-sectional study: p. 15,16 p. 20,21
Variables	7	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.	p. 17,18 p. 81-119
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		p. 17,18
Bias	9	Describe any efforts to address potential sources of bias		e.g. p. 21,22
Study size	10	Explain how the study size was		p. 15

		arrived at		
Quantitative variables	11	Explain how quantitative variables were handled in the analyses. If applicable, describe which groupings were chosen,		p. 24,25 p. 17,18
Statistical methods	12	and why (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		(a) p. 24-28 (b) p. 26 (c) p. 28 (d) n.a. (e) n.a.
Data access and cleaning methods		analyses	RECORD 12.1: Authors should describe the extent to which the investigators had access to the database population used to create the study population. PECORD 12.2: Authors should provide	n 01 02
Linkage			RECORD 12.2: Authors should provide information on the data cleaning methods used in the study. RECORD 12.3: State whether the study included person-level, institutional-	p. 91-93 p. 20

			level, or other data linkage across two or more databases. The methods of linkage and methods of linkage quality evaluation should be provided.	
Results	T			
Participants	13	(a) Report the numbers of individuals at each stage of the study (<i>e.g.</i> , 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.	(a), (b), (c) p. 24 p. 15,16
Descriptive data	14	(a) Give characteristics of study participants (<i>e.g.</i> , 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) <i>Cohort study</i> - summarise follow-up time (<i>e.g.</i> , average and total amount)		(a) Table 4.1 (b) p.24
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		Cross-sectional study: Table 4.1
Main results	16	(a) Give unadjusted estimates		(a) Tables 4.2,4.3

		and if and a ablf1-		
		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 for a		
		meaningful time period		
Other analyses	17	Report other analyses done—e.g.,		p. 40
J		analyses of subgroups and		
		interactions, and sensitivity		
		analyses		
Discussion				
Key results	18	Summarise key results with		p. 63
J		reference to study objectives		
Limitations	19	Discuss limitations of the study,	RECORD 19.1: Discuss the	p. 78
		taking into account sources of	implications of using data that were not	
		potential bias or imprecision.	created or collected to answer the	
		Discuss both direction and	specific research question(s). Include	
		magnitude of any potential bias	discussion of misclassification bias,	
		magnitude of any potential oras	unmeasured confounding, missing data,	
			and changing eligibility over time, as	
			they pertain to the study being reported.	
Interpretation	20	Give a cautious overall	me, permit to the study being reported.	p. 79,80
		interpretation of results		r ,
		considering objectives,		
		limitations, multiplicity of		
		analyses, results from similar		
		studies, and other relevant		
		evidence		
Generalisability	21	Discuss the generalisability		p. 66-70
Generalisaumity	41	(external validity) of the study		p. 00-70
		`		
		results		

Other Information						
Funding	22	Give the source of funding and			n.a.	
		the role of the funders for the			no funding	
		present study and, if applicable,				
		for the original study on which				
		the present article is based				
Accessibility of				RECORD 22.1: Authors should provide	p. 81-119	
protocol, raw				information on how to access any		
data, and				supplemental information such as the	https://github.com	
programming				study protocol, raw data, or	/rappdaniel/	
code				programming code.	vo2peak	

^{*}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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