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				
	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	Study design reported in abstract (page 2) Summary reported in abstract (page 2)	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.	Noted in the abstract (page 2) Geographic region and timeframe reported in abstract (page 2) Data linkage reported in abstract (page 2)
Introduction	_				
Background rationale	2	Explain the scientific background and rationale for the investigation being reported	Background and rationale reported on pages 3 to 5		
Objectives	3	State specific objectives, including any prespecified hypotheses	Objectives and hypothesis reported on pages 4 and 5		

Methods	Methods							
Study Design	4	Present key elements of study design early in the paper	Summary of key methods presented in last paragraph of background (page 4)					
Setting	5	Describe the setting, locations, and relevant dates, including periods of recruitment, exposure, follow-up, and data collection	Study setting described on pages 5 and 6, other details of cohort creation reported on page 6 and 7					
Participants	6	(a) Cohort study - Give the eligibility criteria, and the sources and methods of selection of participants. Describe methods of follow-up (b) Cohort study - For matched studies, give matching criteria and number of exposed and unexposed	Described on pages 6 and 7 Propensity score matching procedure described on page 9	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	Cohort creation described on pages 6 and 7, and a detailed description of algorithms presented in Online Appendix 1. Validation study cited on page 7			

Variables	7	Clearly define all outcomes, exposures, predictors, potential confounders, and effect modifiers. Give diagnostic criteria, if applicable.	Described on pages 7 and 8, and in Supplemental Table 1	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.	Data dictionary available in Supplemental Table 1
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	Details of variable creation described on pages 7 and 8, and in Supplemental Table 1	•	
Bias	9	Describe any efforts to address potential sources of bias	Propensity score matching procedure described on page 9		
Study size	10	Explain how the study size was arrived at	N/A – included all cases over 17-year period		
Quantitative variables	11	Explain how quantitative variables were handled in the analyses. If applicable, describe which groupings were chosen, and why	Details of variable creation described on pages 7 and 8, and in Supplemental Table 1		

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 (e) Describe any sensitivity analyses	Described on pages 9 (propensity score methods) and 10 (details of statistical analyses)		
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. RECORD 12.2: Authors should	Described in acknowledgement section (page 17)
				provide information on the data cleaning methods used in the study.	
Linkage				RECORD 12.3: State whether the 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.	Details of data linkages provided on page 6 and 7

Results						
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	Presented in first paragraph of results section (page 10)	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.	Presented in first paragraph of results section (page 10)	
Descriptive data	14	(a) Give characteristics of study participants (e.g., demographic, clinical, social) and information on exposures and potential confounders	Characteristics presented in Table 2			
		(b) Indicate the number of participants with missing data for each variable of interest	N/A – participants with missing data (<1%) excluded			
		(c) Cohort study - summarise follow-up time (e.g., average and total amount)	Presented in Table 4			
Outcome data	15	Cohort study - Report numbers of outcome events or summary measures over time	Presented in Table 4			

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 for a meaningful time period	Access analysis presented in Table 3, text states that estimates did not differ therefore fully adjusted models presented. Propensity score matching used to account for confounding in outcome estimates presented in Table 4		
Other analyses	17	Report other analyses done—e.g., analyses of subgroups and interactions, and sensitivity analyses	N/A		
Discussion					
Key results	18	Summarise key results with reference to study objectives	Summarized on page 13		
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	Described on pages 15 and 16	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.	Described on pages 15 and 16

Interpretation	20	Give a cautious overall interpretation of results considering objectives, limitations, multiplicity of analyses, results from similar studies, and other relevant evidence	Overall conclusions presented on page 16					
Generalisability	21	Discuss the generalisability (external validity) of the study results	Described on page 15					
Other Information	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	Source of funding described in acknowledgements					
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.	Addressed in acknowledgement section			

^{*}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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