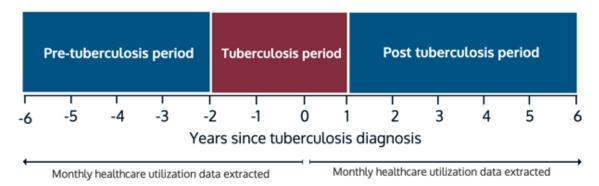
Supplementary Appendix

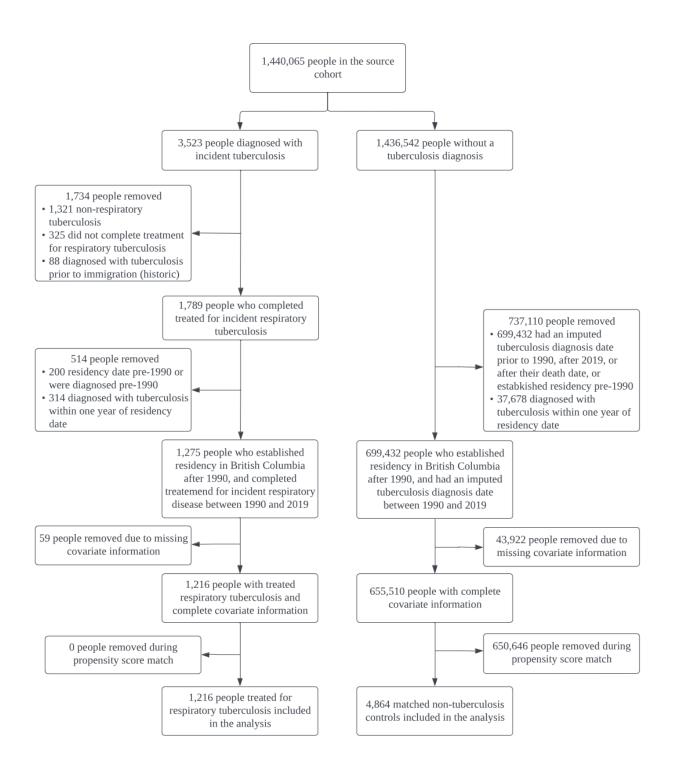
Supplementary Figure 1. Study periods



Supplementary Table 1. ICD-9 codes used to examine the impact treated tuberculosis had on different categories of out-patient physician encounters

Category	ICD9 code range
Diseases of the respiratory system	460 - 519
Diseases of the circulatory system	390 - 459
Mental disorders	290 - 319
Diseases of the genitourinary system	580 - 629
Infectious and parasitic diseases	001-139
Injury and poisoning	800 - 999
Endocrine, nutritional and metabolic diseases, and immunity disorders	240 - 279
Symptoms, signs, and ill-defined conditions	780 - 799

Supplementary Figure 2. Study flowchart



Years since tuberculosis diagnosis	Monthly interval	Control population	Tuberculosis population	Years since tuberculosis diagnosis	Monthly interval	Control population	Tuberculosis population
	-72	2789	692		72	2896	705
	-71	2795	694		71	2920	710
	-70	2825	702		70	2936	714
	-69	2855	712		69	2955	719
	-68	2877	717		68	2980	728
-5	-67	2904	724	-	67	2998	737
-5	-66	2930	733	5	66	3029	745
	-65	2956	740		65	3055	756
	-64	2977	744		64	3074	763
	-63	3002	747		63	3100	771
	-62	3017	752		62	3121	777
	-61	3035	758		61	3139	783
	-60	3051	766		60	3165	790
	-59	3101	778		59	3200	801
	-58	3108	781		58	3220	807
	-57	3143	790		57	3245	813
	-56	3163	795		56	3271	816
-4	-55	3221	810	4	55	3288	820
	-54	3239	814		54	3320	825
	-53	3260	820		53	3337	827
	-52	3269	824		52	3362	830
	-51	3303	832		51	3379	833
	-50	3348	844		50	3395	835

Supplementary Table 2. Population denominator summary for monthly intervals

49 4 3371 489 497 497 497 497 497 497 497 497 497 49							•	
 447 443 446 442 457 453 463 463 464 464		-49	3371	849		49	3419	838
4634926774535338854436288974336639094336639094237109174137419284037629383938109413938109413938409493738549583738549583892197235392197833397699231305490631401510062040291011214047101922404710192340410302440498325401510326420110492741551039284042983294047103020404710302040471030214051032240439842340441030244042983254043103264201104927415510392840429832940510420405104204051042140510422405104234041032440410825<		-48	3391	857		48	3441	846
-43533885-43533885-443628897-433663909-423710917-413741928-403762938-393810941-393840949-373854958-373854958-383897972-353921972-343954966-333976992-343054966-333976992-34405101-353944966-36397692-314051006-3239441015-344041019-3540421019-364041103-37415103-384041103-39404294-30404294-31405103-3240471019-34404103-354041103-364041104-37415104-384041104-394041104-394041104-364041104-374041104-384041104-394041104-394041104-394041104-394		-47	3437	868		47	3464	848
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.3 .42 3710 917 .41 3741 928 41 3640 882 .40 3762 938 40 3667 891 .39 3810 941 36 3698 899 .38 3840 949 36 3718 903 .37 3854 958 3718 903 .37 3854 958 3718 903 .36 3997 972 36 3820 917 .35 3921 978 34 3858 922 .34 3954 986 33 3820 917 .34 3954 986 33 3820 928 .33 3976 992 33 3882 928 .34 4015 1006 31 3946 949 .20 4047 1019 30 3975 958 .21 4042 983 22 24 4042 983 .22 4014 1039		-44	3628	897		44	3557	855
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		-26	4201	1049		26	4116	1008
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					•		
	-23	4332	1083		23	4204	1039
	-22	4362	1093		22	4234	1048
	-21	4402	1100		21	4261	1058
	-20	4452	1110		20	4291	1069
	-19	4497	1118		19	4329	1079
	-18	4581	1139		18	4356	1092
	-17	4642	1156		17	4382	1102
	-16	4691	1163		16	4415	1110
	-15	4724	1173		15	4448	1123
	-14	4762	1183		14	4468	1129
	-13	4809	1200		13	4504	1135
	-12	4857	1214		12	4528	1143
	-11	4864	1216		11	4559	1148
	-10	4864	1216		10	4600	1153
	-9	4864	1216		9	4627	1159
	-8	4864	1216		8	4650	1167
0	-7	4864	1216	0	7	4675	1175
0	-6	4864	1216	0	6	4700	1178
	-5	4864	1216		5	4732	1189
	-4	4864	1216		4	4761	1193
	-3	4864	1216		3	4788	1203
	-2	4864	1216		2	4810	1207
	-1	4864	1216		1	4839	1211

Time interval	Control population	Tuberculosis population
Median time (IQR) from date residency in British Columbia established to tuberculosis diagnosis date	7.7 years (3.7, 13.7)	7.7 years (3.6, 13.9)
Median time (IQR) from tuberculosis diagnosis date to Medical Service Plan or study end (31- December-2019)	7.8 years (3.5, 13.8)	7.2 years (3.0, 12.4)

Supplementary Table 3. Median follow-up time intervals for the study population

Supplementary Figure 3. Results of the segmented regression analysis on out-patient physician encounters related to (a) diseases of the circulatory system, (b) mental disorders, (c) diseases of the genitourinary system, (d) infectious and parasitic disease, (e) injury and poisoning, (f) disease of the nervous system and sense, (g) endocrine, nutritional, and metabolic diseases, and immunity disorders, and (h) ill-defined conditions.

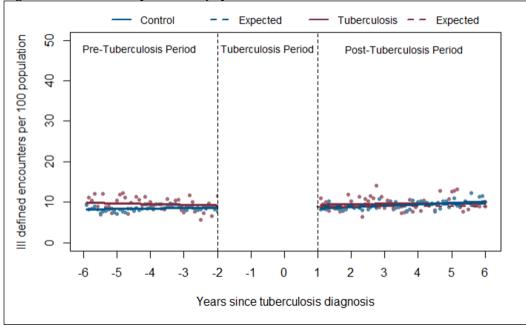
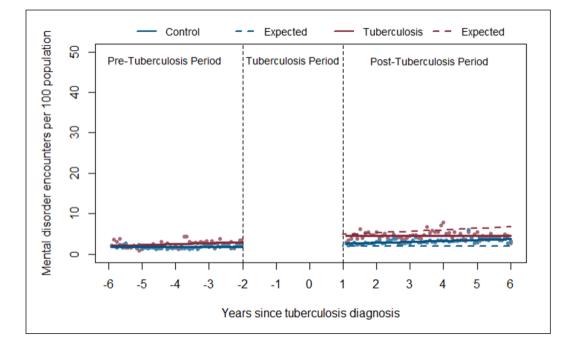


Figure 3a. Circulatory-related physician encounters

Figure 3b. Mental disorder-related physician encounters



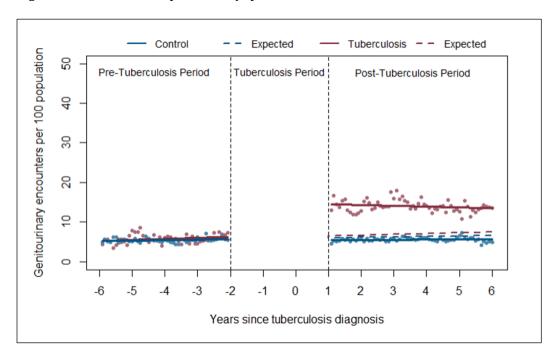
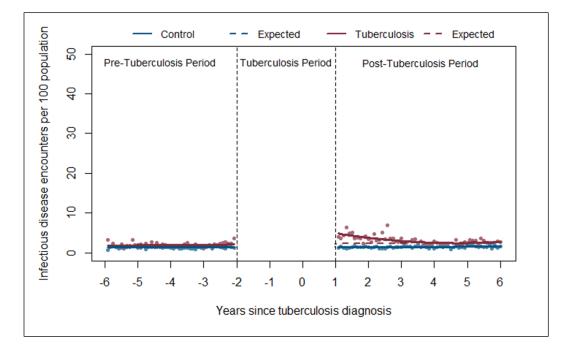


Figure 3c. Genitourinary-related physician encounters

Figure 3d. Infectious and parasitic disease-related physician encounters



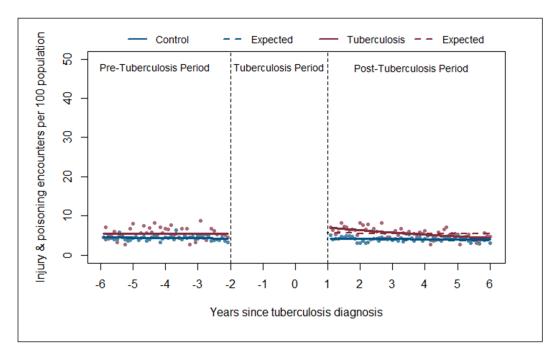
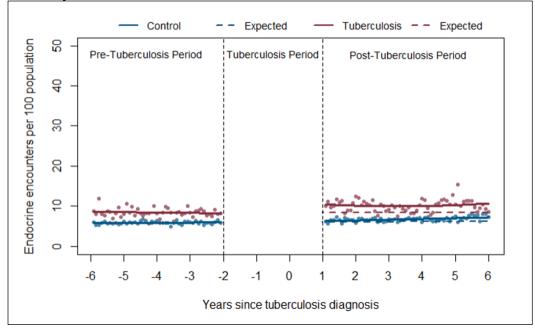


Figure 3e. Injury and poisoning-related physician encounters

Figure 3f. Physician encounters related to endocrine, nutritional, and metabolic diseases, and immunity disorders



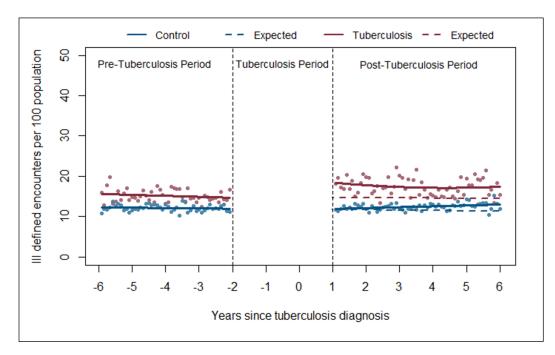


Figure 3g. Physician encounters related to ill-defined conditions

Supplementary Table 4. Changes in select outpatient physician encounters per 100 population at 1- and 5- years post-tuberculosis for people diagnosed with tuberculosis

		One year post tuberculosis					Five years	post tuberculo	sis
Physician encounter reason	Expected monthly rate	Observed monthly rate (95% CI)	Absolute difference (95% CI)	Relative change (95% CI)		Expected monthly rate	Observed monthly rate (95% CI)	Absolute difference (95% CI)	Relative change (95% CI)
Diseases of the circulatory system	9.8	9.4 (8.6, 10.2)	-0.4 (-1.2, 0.4)	-4.2% (-12.4, 3.6)		9.2	9.8 (9.2, 10.3)	0.6 (0.0, 1.1)	6.9% (0.0, 12.4)
Mental disorder	3.7	4.6 (4.3, 5.0)	0.9 (0.6, 1.3)	25.7% (17.5, 36.6)		5.6	4.6 (4.3, 4.8)	-1 (-0.8, -1.3)	-18.5% (-14.9, -23.8)
Diseases of the genitourinary system	5.7	14.6 (14.1, 15.1)	8.9 (8.4, 9.4)	156.7% (147.9, 165.5)		6.1	13.7 (13.4, 14.1)	7.6 (7.3, 8.0)	122.8% (117.9, 129.3)
Infectious and parasitic diseases	2.0	4.8 (4.4, 5.3)	2.8 (2.4, 3.3)	138.7% (118.8, 163.6)		2.5	2.4 (2.2, 2.6)	-0.1 (-0.3, 0.1)	-3.2% (-11.3, 4.9)
Injury and poisoning	5.1	7.0 (6.3, 7.7)	1.9 (1.2, 2.6)	37.8% (24.0, 51.5)		5.5	4.7 (4.4, 5.1)	-0.8 (-0.4, -1.1)	-14.7% (-7.4, -20.1)

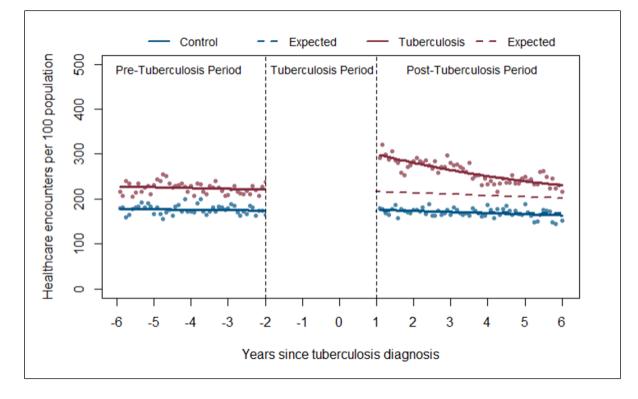
Endocrine, nutritional, and metabolic diseases, and immunity disorders	8.4	10.5 (9.7, 11.2)	2.0 (1.2, 2.7)	24.1% (14.6, 32.3)	8.8	10.3 (9.9, 10.7)	1.6 (1.1, 1.9)	16.7% (12.2, 21.2)
Symptoms, signs, and ill-defined conditions	15.3	18.4 (17.3, 19.5)	3.1 (2.0, 4.2)	20.2% (13.0, (27.4)	15.8	17.2 (16.7, 17.7)	1.4 (0.9, 1.9)	8.6% (5.4, 11.7)

Supplementary Table 5. Baseline characteristics of the coarsened exact matched tuberculosis and non-tuberculosis control populations

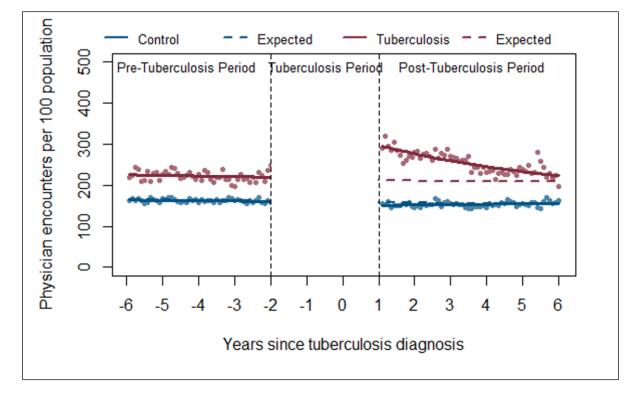
Characteristics	Non-tuberculosis control population N (%)	Tuberculosis population N (%)	Standardized Mean Difference
Ν	1108	1108	
Medical Service Plan start year			<0.001
1990 – 1995	414 (37.4)	414 (37.4)	
1996 – 2000	267 (24.1)	267 (24.1)	
2001 – 2005	166 (15.0)	166 (15.0)	
2006 - 2010	153 (13.8)	153 (13.8)	
2011 - 2015	89 (8.0)	89 (8.0)	
2016 - 2019	19 (1.7)	19 (1.7)	
Age at arrival to Canada , median (IOR)	42.0 (29.0, 58.0)	43.0 (28.0, 58.0)	0.022
Sex			<0.001
Male	619 (55.9)	619 (55.9)	
Female	489 (44.1)	489 (44.1)	
WHO tuberculosis incidence in country of origin			<0.001
< 30 per 100,000	20 (1.8)	20 (1.8)	
30 to 100 per 100,000	393 (35.5)	393 (35.5)	
101 to 200 per 100,000	363 (32.8)	363 (32.8)	
> 200 per 100,000	332 (30.0)	332 (30.0)	
WHO region of origin			<0.001
Western Pacific Region	720 (65.0)	720 (65.0)	
South-East Asia Region	298 (26.9)	298 (26.9)	
Eastern Mediterranean Region	29 (2.6)	29 (2.6)	
African Region	25 (2.3)	25 (2.3)	
European Region	23 (2.1)	23 (2.1)	

Region of the Americans	13 (1.2)	13 (1.2)	
Immigration class			<0.001
Family	587 (53.0)	587 (53.0)	
Economic	396 (35.7)	396 (35.7)	
Refugee	86 (7.8)	86 (7.8)	
Other	39 (3.5)	39 (3.5)	
Elixhauser comorbidity score , median (IQR)	0.0 (0.0, 0.0)	0.0 (0.0, 0.0)	<0.001
Neighbourhood income			<0.001
Lowest 20%	410 (37.0)	410 (37.0)	
Low-middle 20%	310 (28.0)	310 (28.0)	
Middle 20%	189 (17.1)	189 (17.1)	
Middle-high 20%	109 (9.8)	109 (9.8)	
Highest 20%	90 (8.1)	90 (8.1)	
Health service delivery area			<0.001
Metro	972 (87.7)	972 (87.7)	
Urban – Rural	124 (11.2)	124 (11.2)	
Rural - Remote	12 (1.1)	12 (1.1)	
Years since arrival, median (IQR)	7.0 (4.0, 14.0)	7.0 (4.0, 14.0)	0.004
Tuberculosis diagnosis year			<0.001
1990 - 1995	51 (4.6)	51 (4.6)	
1996 - 2000	122 (11.0)	122 (11.0)	
2001 - 2005	190 (17.1)	190 (17.1)	
2006 - 2010	223 (20.1)	223 (20.1)	
2011 - 2015	272 (24.5)	272 (24.5)	
2016 - 2019	250 (22.6)	250 (22.6)	

Supplementary Figure 4. Results of the segmented regression analysis for monthly rates of outpatient encounters, using coarsened exact matching rather than propensity score matching



Supplementary Figure 5. Results of the segmented regression analysis for monthly rates of outpatient encounters, restricted to people treated for respiratory tuberculosis between 2000 and 2019



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	nct		-		F
	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	Abstract and title	 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 	Abstract Abstract
Introduction				or abstract.	
Background rationale	2	Explain the scientific background and rationale for the investigation being reported	Pg. 4		
Objectives	3	State specific objectives, including any prespecified hypotheses	Pg. 4 - 5		
Methods					
Study Design	4	Present key elements of study design early in the paper	Pg. 6		
Setting	5	Describe the setting, locations, and relevant dates, including periods of recruitment, exposure, follow-up, and data collection	Pg. 4 - 6		

Participants	6	(a) Cohort study - Give the eligibility criteria, and the sources and methods of selection of participants. Describe methods of follow-up <i>Case-control study</i> - 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 <i>Cross-sectional study</i> - Give the eligibility criteria, and the sources and methods of selection	Pg. 6	 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. 	Pg. 6 NA - population selected from Provincial Registry
		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	Pg. 6 - 7	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.	Sup. figure 2 - study flow chart
Variables	7	Clearly define all outcomes, exposures, predictors, potential confounders, and effect modifiers. Give diagnostic criteria, if applicable.	Pg. 7	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.	Pg. 6 - 7; Sup. 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 	Pg. 7 - 8		

Bias	9	Describe any efforts to address potential sources of bias	Pg. 7 - 8		
Study size	10	Explain how the study size was arrived at	Sup. figure 2 - study flow chart		
Quantitative variables	11	Explain how quantitative variables were handled in the analyses. If applicable, describe which groupings were chosen, and why	Pg. 6 - 8		
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) <i>Cohort study</i> - If applicable, explain how loss to follow-up was addressed <i>Case-control study</i> - If applicable, explain how matching of cases and controls was addressed <i>Cross-sectional study</i> - If applicable, describe analytical methods taking account of sampling strategy (e) Describe any sensitivity analyses 	Pg. 8 - 9		
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; Contributions

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-level, or other data linkage across two or more databases. The methods of linkage and methods of linkage quality evaluation should be provided. 	Pg. 5 Pg. 5
Results					
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 	Sup Figure 2 - study flow chart; pg. 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.	Sup Figure 2 - study flow chart; pg. 10
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) 	Sup Figure 2 - study flow chart; Pg. 10; Table 1; Sup. Table 3		
Outcome data	15	Cohort study - Report numbersof outcome events or summarymeasures over timeCase-control study - Reportnumbers in each exposure	Pg. 10 - 11; Table 2		

		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, 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 	Pg. 10 - 11; Table 2		
Other analyses	17	Report other analyses done— e.g., analyses of subgroups and interactions, and sensitivity analyses	Pg. 11		
Discussion					
Key results	18	Summarise key results with reference to study objectives	Pg. 11 - 12		
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	Pg. 13	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.	Pg. 13
Interpretation	20	Give a cautious overall interpretation of results considering objectives,			

		limitations, multiplicity of analyses, results from similar studies, and other relevant evidence	Pg. 13 - 14			
Generalisability	21	Discuss the generalisability (external validity) of the study results	Pg. 13			
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	Funding statement			
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.	Data availability statement	

*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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