

Appendix

Reporting Checklist

Item	Page number or section where item is satisfied
Title	The title Identifies the report as a meta-epidemiologic study
Abstract	The background, goals, data sources, and key findings are presented in a structured abstract
Rationale	Background section, page 4
Objectives	Background section, page 4
Protocol	Protocol is unregistered, page 5
Eligibility criteria	Page 6
Information sources	Pages 5-6
Search	Page 5
Study selection	Page 6
Data collection process	Page 6

Data items	Page 6-7
Risk of bias in individual studies	Not relevant
Summary measures	Page 7
Synthesis of results	Page 7
Study selection	Page 8 and appendix
Synthesis of results	Page 8
Additional analysis	Sensitivity analysis, page 8-9
Summary of evidence	Page 9-10
Limitations	Page 10
Conclusions	Page 10
Funding	Page 2

Search strategy

("Lancet (London, England)"[Journal] OR "The New England journal of medicine"[Journal]) OR "Journal of the American College of Cardiology"[Journal] OR "Journal of the American Medical Association"[Journal] OR "Circulation"[Journal] OR "European heart journal"[Journal] AND (Randomized Controlled Trial[ptyp] AND ("2017/12/31"[PDAT]: "2021/9/13"[PDAT])).

Study Selection

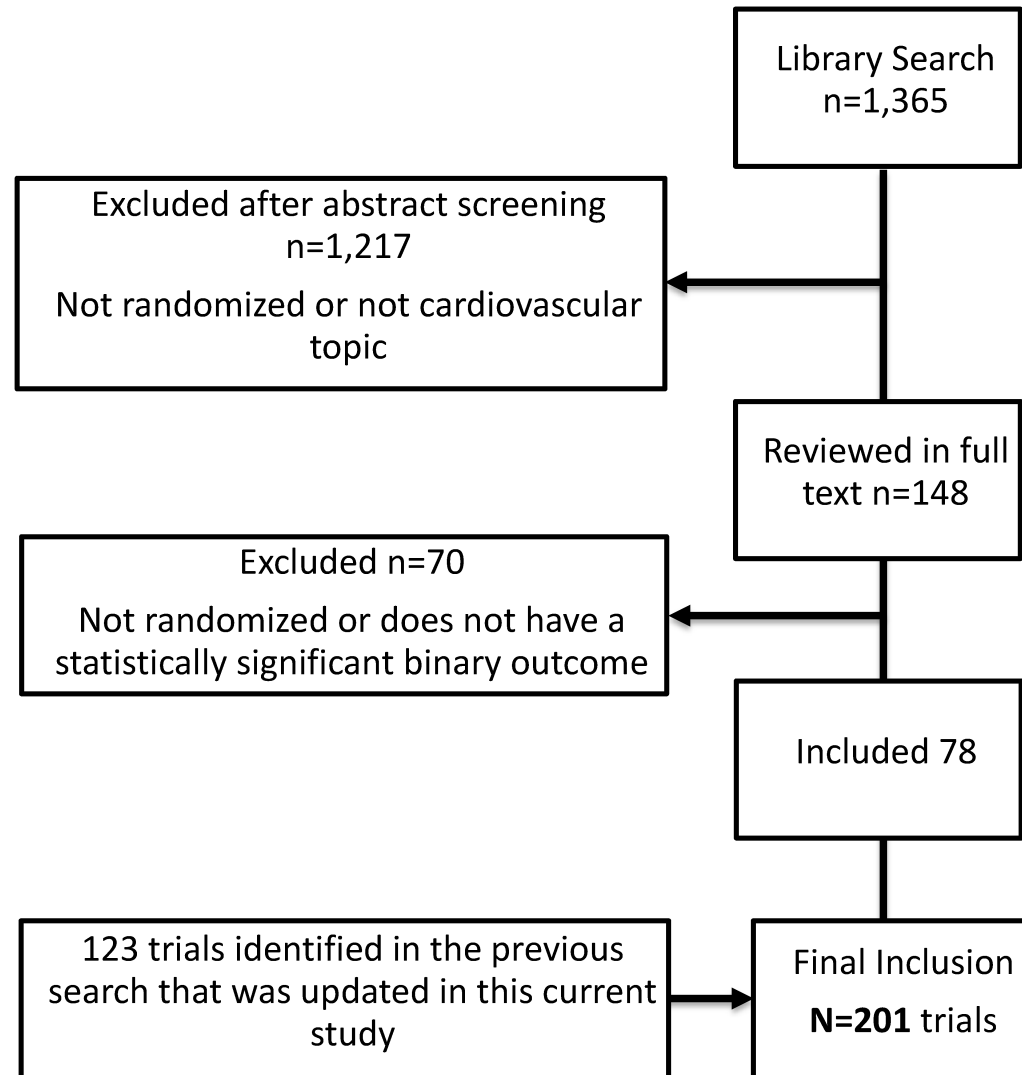


Table: Description of included trials

PMID	Year	Control Events	Control Sample	Intervention Events	Intervention Sample	RR	LL CI	UL CI	FI
34133859	2021	152	931	222	930	1.46	1.21	1.76	35
26551272	2021	354	4683	264	4678	0.75	0.64	0.87	41
33999547	2021	168	2391	114	2379	0.68	0.54	0.86	21
33459776	2021	369	1480	310	1523	0.82	0.71	0.93	24
33202219	2020	71	942	105	941	1.48	1.11	1.97	9
33200892	2020	355	614	245	608	0.70	0.62	0.78	72
33200891	2020	530	5292	400	5292	0.75	0.67	0.85	71
33197395	2020	294	550	217	558	0.73	0.64	0.83	49
33186492	2020	83	1421	59	1429	0.71	0.51	0.98	2
33185990	2020	1607	4112	1523	4120	0.95	0.90	1.00	1
32970396	2020	138	2152	100	2152	0.72	0.56	0.93	8
32882163	2020	116	1168	82	1170	0.71	0.54	0.93	8
32865380	2020	264	2760	187	2762	0.71	0.59	0.85	36
32865377	2020	462	1867	361	1863	0.78	0.69	0.88	50
32865376	2020	50	331	89	334	1.76	1.29	2.41	17
32865375	2020	316	6332	249	6399	0.78	0.66	0.92	24
32865374	2020	44	492	15	492	0.34	0.19	0.60	13
32668111	2020	362	5493	303	5523	0.83	0.72	0.97	11
32588060	2020	37	325	20	328	0.54	0.32	0.90	3
32434381	2020	20	1579	55	1572	2.76	1.66	4.59	17
32334703	2020	118	502	88	500	0.75	0.59	0.96	4
32272848	2020	17	421	140	487	7.12	4.38	11.58	80
32241367	2020	101	1678	32	1646	0.32	0.22	0.48	42
32227756	2020	61	389	75	388	1.23	0.91	1.68	1
32223113	2020	18	1795	4	1809	0.22	0.07	0.65	4
32222135	2020	584	3278	508	3286	0.87	0.78	0.97	18
32222134	2020	972	2524	897	2526	0.92	0.86	0.99	8

32112556	2020	96	713	39	527	0.55	0.39	0.78	12
31982074	2020	754	5764	668	5780	0.88	0.80	0.97	18
31779786	2020	83	676	57	663	0.70	0.51	0.96	2
31738483	2020	121	1430	156	1430	1.29	1.03	1.62	3
31733180	2019	38	818	64	826	1.67	1.13	2.46	6
31733140	2019	170	2379	131	2366	0.77	0.62	0.97	5
31577396	2019	17	297	29	284	1.78	1.00	3.17	1
31556978	2019	141	3555	250	3564	1.77	1.45	2.16	68
31553203	2019	21	400	45	400	2.14	1.30	3.53	8
31535829	2019	502	2371	386	2373	0.77	0.68	0.87	62
31479209	2019	156	1246	122	1242	0.78	0.63	0.98	3
31478763	2019	180	1642	123	1646	0.68	0.55	0.85	24
31475799	2019	184	2012	137	2006	0.75	0.60	0.92	12
31475798	2019	818	9601	736	9619	0.90	0.82	0.99	9
31475795	2019	339	2025	179	2016	0.53	0.45	0.63	113
31475793	2019	58	1108	35	1107	0.60	0.40	0.91	4
31448738	2019	301	3417	202	3421	0.67	0.56	0.80	55
31434507	2019	133	1695	89	1716	0.66	0.51	0.86	16
31216398	2019	209	464	162	454	0.79	0.68	0.93	13
31189511	2019	663	4952	594	4949	0.90	0.81	0.99	4
31185157	2019	30	1592	15	1591	0.50	0.27	0.93	1
31178152	2019	146	1894	61	1939	0.41	0.30	0.55	58
31141634	2019	85	429	117	439	1.35	1.05	1.72	5
30990260	2019	340	2199	245	2202	0.72	0.62	0.84	50
30883058	2019	68	454	42	496	0.57	0.39	0.81	11
30883052	2019	180	512	119	516	0.66	0.54	0.80	33
30786186	2019	27	421	11	420	0.41	0.21	0.81	3
30511879	2018	28	275	12	288	0.41	0.21	0.79	5
30415628	2018	606	4090	459	4089	0.76	0.68	0.85	85
30415601	2018	61	441	35	440	0.58	0.39	0.85	7
30403574	2018	1052	9462	903	9462	0.86	0.79	0.93	65

30291013	2018	428	4732	338	4731	0.79	0.69	0.91	36
30280640	2018	121	312	80	302	0.68	0.54	0.86	14
30261237	2018	39	724	21	724	0.54	0.32	0.91	2
30253879	2018	9	1245	1	1243	0.11	0.01	0.88	1
30221596	2018	265	9589	361	9525	1.37	1.17	1.60	49
30158069	2018	850	6276	1050	6270	1.24	1.14	1.34	120
30146931	2018	743	7740	658	7740	0.89	0.80	0.98	14
30145934	2018	81	2073	48	2073	0.59	0.42	0.84	10
30021076	2018	94	3995	130	4012	1.38	1.06	1.79	6
29900874	2018	133	877	97	877	0.73	0.57	0.93	7
29766772	2018	23	3604	62	3609	2.69	1.67	4.33	19
29766750	2018	160	2449	121	2432	0.76	0.61	0.96	6
29735587	2018	334	6214	266	6199	0.80	0.68	0.93	20
29544699	2018	10	1355	24	1357	2.40	1.15	4.99	2
29540324	2018	114	440	71	448	0.61	0.47	0.80	20
29527974	2018	199	3092	243	3098	1.22	1.02	1.46	4
29274727	2017	139	1540	305	1556	2.17	1.80	2.62	121
29231094	2017	21	524	36	522	1.72	1.02	2.91	1
29132879	2017	460	8261	347	8313	0.75	0.65	0.86	59
29102362	2017	98	604	68	596	0.70	0.53	0.94	5
17398308	2007	324	9319	262	9326	0.81	0.69	0.95	15
17448820	2007	121	669	68	666	0.56	0.43	0.74	26
17466227	2007	88	1218	65	1230	0.73	0.54	1.00	1
17693178	2007	48	485	24	488	0.50	0.31	0.80	8
17982182	2007	781	6795	643	6813	0.82	0.74	0.91	68
18071079	2008	41	1273	62	1280	1.50	1.02	2.21	1
18212283	2008	128	1035	95	1043	0.74	0.57	0.95	6
18280326	2008	32	301	13	299	0.41	0.22	0.76	5
18499566	2008	218	1802	166	1800	0.76	0.63	0.92	15
18757090	2008	765	3481	712	3494	0.93	0.85	1.02	1
18815396	2008	182	403	219	418	1.16	1.01	1.34	1

18997196	2008	251	8901	142	8901	0.57	0.46	0.69	67
19052124	2008	679	5762	552	5744	0.82	0.73	0.91	58
19144937	2009	91	496	67	509	0.72	0.54	0.96	4
19213680	2009	917	2327	734	2301	0.81	0.75	0.88	109
19228612	2009	159	903	105	897	0.66	0.53	0.84	23
19249633	2009	166	1765	115	1769	0.69	0.55	0.87	19
19336502	2009	924	3782	832	3772	0.90	0.83	0.98	17
19553646	2009	90	522	59	536	0.64	0.47	0.87	11
19664895	2009	52	330	32	338	0.60	0.40	0.91	4
19717846	2009	1014	9291	864	9333	0.85	0.78	0.92	73
19796737	2009	170	1153	93	2158	0.29	0.23	0.37	172
19812399	2009	39	453	68	445	1.77	1.22	2.57	11
19880844	2009	53	2026	101	2012	1.92	1.38	2.66	23
19922995	2009	889	1919	828	1927	0.93	0.86	1.00	4
20060578	2010	82	903	56	897	0.69	0.50	0.95	3
20079528	2010	668	6676	569	6732	0.84	0.76	0.94	38
20189239	2010	72	858	44	855	0.61	0.43	0.88	7
20194880	2010	20	250	38	250	1.90	1.14	3.17	3
20228403	2010	1722	4675	1532	4631	0.90	0.85	0.95	84
20382983	2010	26	602	11	614	0.41	0.21	0.83	3
20505177	2010	100	275	72	274	0.72	0.56	0.93	6
20691553	2010	189	245	211	256	1.07	0.98	1.17	1
20801500	2010	937	3264	793	3241	0.85	0.79	0.92	67
20818901	2010	490	4898	561	4906	1.14	1.02	1.28	10
21073363	2011	356	1373	249	1364	0.70	0.61	0.81	61
21073365	2010	364	904	297	894	0.83	0.73	0.93	23
21128814	2010	51	1705	36	1718	0.70	0.46	1.07	1
21175312	2010	74	2699	27	2708	0.36	0.23	0.56	26
21251705	2011	47	1201	75	1269	1.51	1.06	2.16	3
21315441	2011	120	280	84	270	0.73	0.58	0.91	10
21388309	2011	210	2215	178	2232	0.84	0.70	1.02	1

21870978	2011	265	9081	212	9120	0.80	0.67	0.95	12
22077816	2012	910	6471	822	6473	0.90	0.83	0.99	12
22082198	2011	19	1617	43	1619	2.26	1.32	3.86	7
22443427	2012	1176	13224	1028	13225	0.87	0.81	0.95	59
22453654	2012	74	356	51	356	0.69	0.50	0.95	3
22632908	2012	300	1520	245	1515	0.82	0.70	0.95	13
22858390	2012	105	501	68	500	0.65	0.49	0.86	12
22910755	2012	49	582	24	575	0.50	0.31	0.80	8
22924638	2012	56	441	19	447	0.33	0.20	0.55	20
23121323	2012	200	953	147	947	0.74	0.61	0.90	18
23265346	2013	40	282	15	250	0.42	0.24	0.75	7
23277305	2013	1225	9291	1057	9333	0.86	0.80	0.93	84
23415013	2013	126	279	54	284	0.42	0.32	0.55	52
23473369	2013	322	5470	257	5472	0.80	0.68	0.94	19
23484827	2013	90	242	64	233	0.74	0.57	0.96	3
23532240	2013	261	869	222	839	0.88	0.76	1.03	1
23652522	2013	557	954	346	948	0.63	0.57	0.69	165
23727163	2013	174	1437	122	1438	0.70	0.56	0.87	20
23808982	2013	49	2635	15	2609	0.31	0.17	0.55	16
23821090	2013	59	677	37	697	0.61	0.41	0.91	5
23995608	2013	80	5466	159	5106	2.13	1.63	2.78	56
24076283	2014	38	272	17	271	0.45	0.26	0.78	6
24076297	2013	58	1498	34	1500	0.59	0.39	0.89	5
24170388	2014	299	2660	237	2697	0.78	0.66	0.92	22
24171490	2013	94	1109	55	1089	0.60	0.43	0.82	14
24211309	2014	26	359	5	348	0.20	0.08	0.51	9
24678937	2014	6	357	23	390	3.51	1.45	8.52	5
24716680	2014	245	1723	206	1722	0.84	0.71	1.00	1
24716681	2014	28	499	13	506	0.46	0.24	0.87	3
24744272	2014	39	790	2	794	0.05	0.01	0.21	22
24780614	2014	149	506	92	506	0.62	0.49	0.78	29

24886787	2014	304	1460	257	1472	0.84	0.72	0.97	8
24963566	2014	9	285	45	286	4.98	2.48	10.00	20
25002178	2014	46	915	39	914	0.85	0.56	1.29	1
25085960	2014	83	903	36	897	0.44	0.30	0.64	24
25176015	2014	1117	4212	914	4187	0.82	0.76	0.89	118
25176289	2014	72	441	18	447	0.25	0.15	0.41	34
25399658	2014	65	4941	19	5020	0.29	0.17	0.48	26
25403646	2015	520	4187	604	4212	1.15	1.04	1.29	19
25465417	2014	851	10090	688	10080	0.81	0.73	0.89	87
25720624	2015	178	804	140	802	0.79	0.65	0.96	6
25771069	2015	355	10354	282	10348	0.79	0.68	0.93	23
25774645	2015	47	442	67	438	1.44	1.02	2.04	1
25791214	2015	429	4207	369	4197	0.86	0.76	0.98	7
25957224	2015	362	2585	275	2585	0.76	0.66	0.88	39
25980660	2015	91	416	87	414	0.96	0.74	1.25	1
26039521	2015	2742	9077	2572	9067	0.94	0.90	0.98	47
26061836	2015	172	360	188	305	1.29	1.12	1.48	23
26211828	2015	58	137	102	147	1.64	1.31	2.05	22
26267623	2015	17	5532	6	5576	0.35	0.14	0.89	2
26347918	2015	68	313	40	314	0.59	0.41	0.84	9
26408273	2015	30	308	15	307	0.50	0.28	0.91	2
26417061	2016	490	1022	417	1016	0.86	0.78	0.94	26
26466021	2015	113	1211	59	1221	0.52	0.38	0.70	28
26466202	2015	27	916	51	914	1.89	1.20	2.99	7
26551272	2015	319	4683	243	4678	0.76	0.65	0.90	29
26556051	2015	39	700	19	700	0.49	0.28	0.83	4
26699168	2015	242	582	155	574	0.65	0.55	0.77	51
26796390	2016	36	264	61	263	1.70	1.17	2.47	8
26886418	2016	228	1937	175	1939	0.77	0.64	0.92	16
27039945	2016	157	3168	113	3180	0.72	0.57	0.91	12
27040132	2016	304	6344	235	6361	0.77	0.65	0.91	24

27040723	2016	398	602	359	610	0.89	0.82	0.97	12
27195814	2016	148	1319	102	1317	0.69	0.54	0.88	15
27295427	2016	694	4672	608	4668	0.88	0.79	0.97	19
27539168	2016	15	404	38	401	2.55	1.43	4.57	9
27569841	2016	418	842	360	842	0.86	0.78	0.96	17
27810312	2016	121	592	81	592	0.67	0.52	0.87	14
27881569	2017	30	2991	14	2986	0.47	0.25	0.88	2
28304224	2017	1563	13780	1344	13784	0.86	0.80	0.92	118
28317415	2017	22	318	5	317	0.23	0.09	0.59	6
28510646	2017	85	323	43	322	0.51	0.36	0.71	21
28813218	2017	168	1104	131	1099	0.78	0.63	0.97	5
28844193	2017	264	981	151	981	0.57	0.48	0.68	75
28847206	2017	1803	15224	1640	15225	0.91	0.85	0.97	54
28851729	2017	5	501	19	500	3.81	1.43	10.12	4
28859942	2017	29	1094	139	1187	4.42	2.99	6.54	72
28859943	2017	2715	25078	2566	25078	0.95	0.90	0.99	14
28902590	2017	23	481	10	499	0.42	0.20	0.87	2
29083953	2017	158	344	189	341	1.21	1.04	1.40	7
29102362	2017	98	604	68	596	0.70	0.53	0.94	5

RR: relative risk. LL CI and UL CI are the lower and upper limits of 95% confidence interval.