

Supplement for

Aune D, Mahamat-Saleh Y, Kobeissi E, Feng T, Heath AK, Janszky I. Blood pressure, hypertension and the risk of atrial fibrillation: a systematic review and meta-analysis of cohort studies.

Supplementary Text. Search strategy in PubMed

("blood pressure" OR blood pressure[MeSH] OR hypertension OR hypertension[MeSH])

AND

("atrial fibrillation" OR atrial fibrillation[MeSH] or "atrial flutter" OR atrial flutter[MeSH])

AND

("case-control" OR cohort OR cohorts OR prospective OR longitudinal OR "followed up"
OR "follow-up" OR "cross-sectional" OR "hazard ratio" OR "relative risk" OR "odds ratio"
OR "odds ratios" OR prevalence OR incidence)

Search strategy in Embase

(blood pressure OR hypertension OR blood pressure/ OR hypertension/)

AND

(atrial fibrillation or atrial flutter OR atrial fibrillation/ or atrial flutter/)

AND

(case-control OR cohort OR cohorts OR prospective OR longitudinal OR followed up OR
follow-up OR cross-sectional OR hazard ratio OR relative risk OR odds ratio OR prevalence
OR incidence)

Supplementary Table 1. List of excluded studies and exclusion reasons

Exclusion reason	Reference number
<3 categories of exposure	(1;2)

Abstract	(3-114)
Autopsy study	(115)
Case-control study	(116-127)
Case only study	(128-152)
Cross-sectional study	(153-231)
Duplicate	(232-271)
Ecological study	(272)
Editorial	(273-281)
Elevated blood pressure, not hypertension	(282;283)
GWAS	(284)
Hospital-based study	(285)
Letter	(286-288)
Lifetime risk	(289;290)
Meta-analysis	(291;292)
Mendelian Randomization study	(293-299)
Modeling study	(300)
No risk estimates	(301-307)
Not original data	(308;309)
Not relevant data	(310)
Not relevant exposure	(311-430)
Not relevant outcome	(431-457)
Patient populations	(458-669)
Review	(670-803)
Summary for patients	(804)
Unadjusted risk estimates	(805)
Unreliable confidence intervals (asymmetrical)	(806)

Unreliable risk estimates	(807;808)
Unspecific outcome	(809)
Workshop report	(810)

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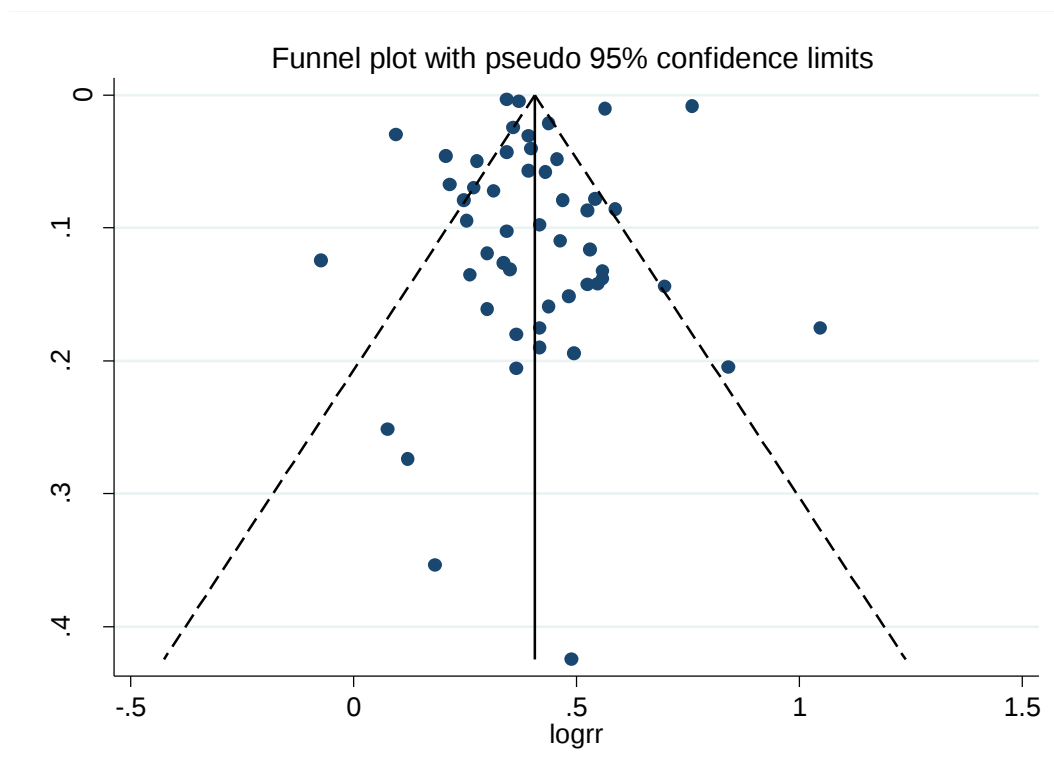
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Supplementary Table 2. Table of risk estimates and 95% confidence intervals from the nonlinear dose-response analyses of systolic and diastolic blood pressure and risk of atrial fibrillation

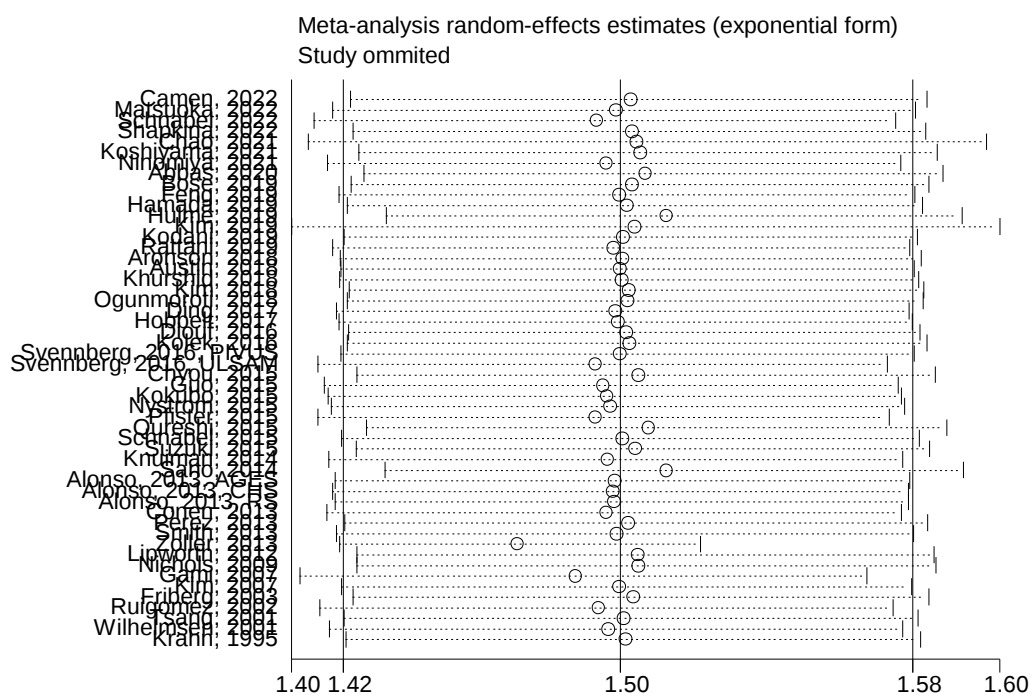
Systolic blood pressure		Diastolic blood pressure	
mmHg	RR (95% CI)	mmHg	RR (95% CI)

90	1.00	60	1.00
100	1.11 (1.08-1.13)	70	1.20 (1.15-1.25)
110	1.21 (1.17-1.26)	80	1.38 (1.28-1.49)
120	1.34 (1.27-1.41)	90	1.55 (1.40-1.71)
130	1.47 (1.37-1.56)	100	1.71 (1.52-1.91)
140	1.61 (1.49-1.73)	110	1.86 (1.64-2.11)
150	1.76 (1.62-1.92)	120	2.00 (1.75-2.29)
160	1.93 (1.76-2.12)	130	2.13 (1.85-2.46)
170	2.11 (1.90-2.34)	140	2.25 (1.95-2.61)
180	2.30 (2.06-2.57)	150	2.37 (2.04-2.75)
190	2.51 (2.22-2.83)	160	2.47 (2.13-2.88)
200	2.73 (2.39-3.11)		
p _{nonlinearity}	<0.0001	p _{nonlinearity}	<0.0001

Supplementary Figure 1. Funnel plot for hypertension and atrial fibrillation



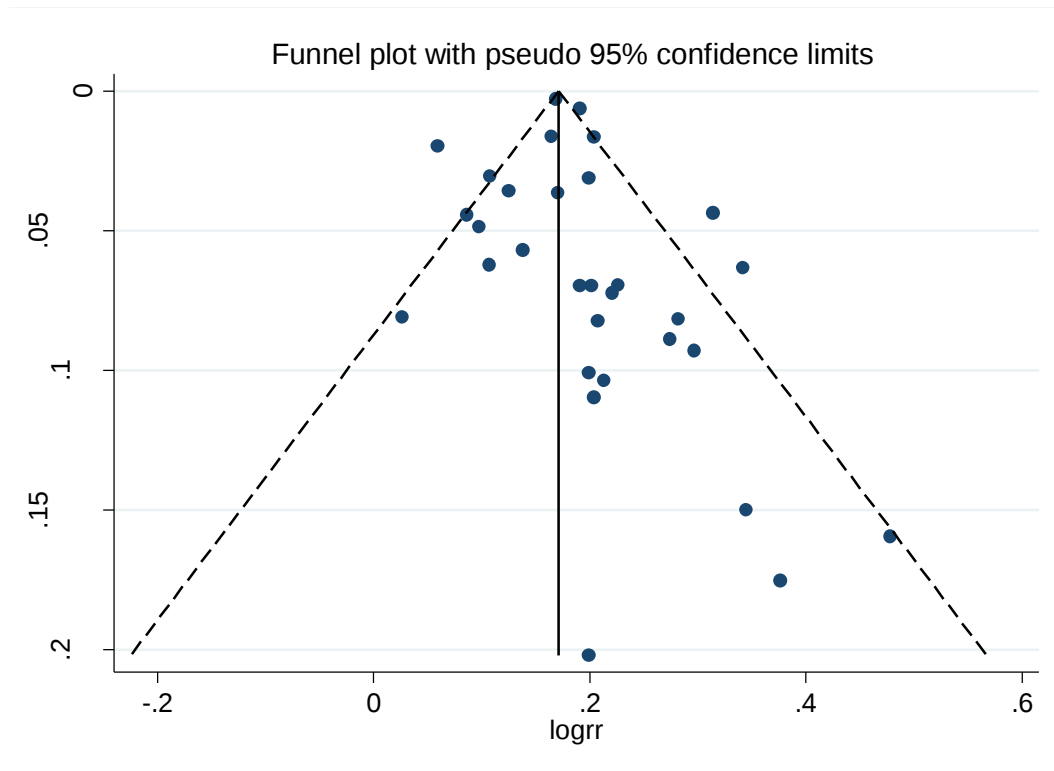
Supplementary Figure 2. Influence analysis of hypertension and atrial fibrillation



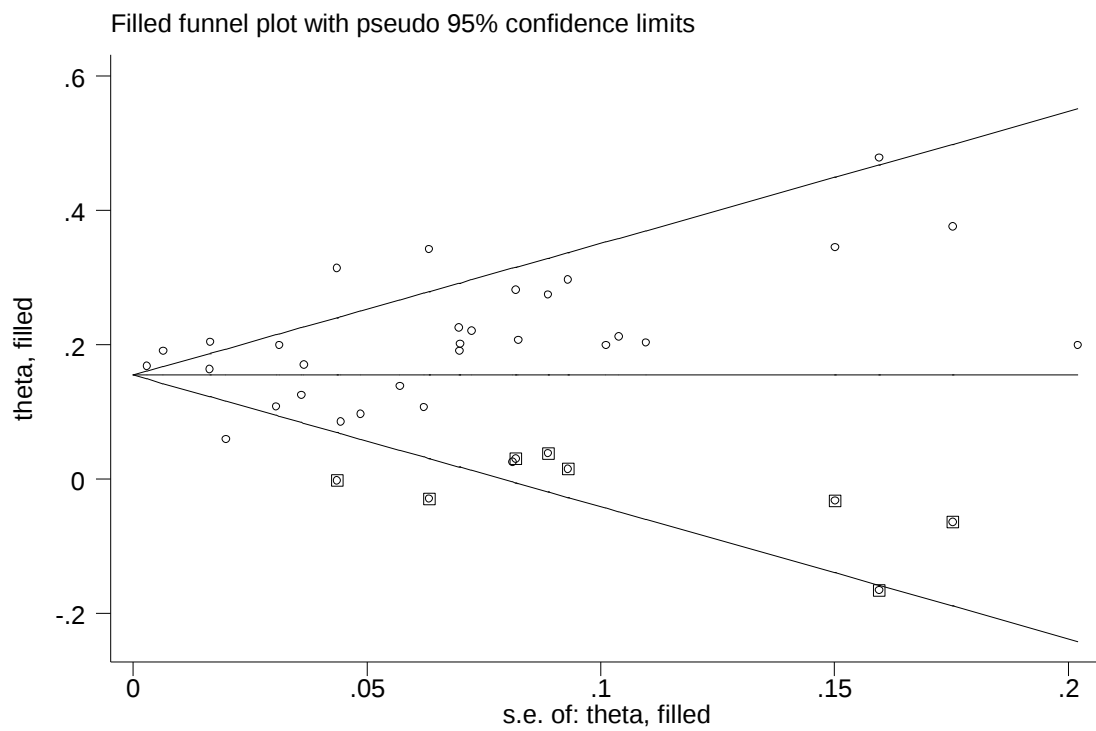
Study omitted	e ^{coef.}	[95% Conf. Interval]	
Camen, 2022	1.4997672	1.4214001	1.5824549
Matsuoka, 2022	1.4955901	1.4162384	1.5793877
Schnabel, 2022	1.4901563	1.4110751	1.5736694
Shapkina, 2022	1.4999818	1.4220499	1.5821846
Chao, 2021	1.5013397	1.4094297	1.5992432
Koshiyama, 2021	1.5023394	1.4236654	1.585361
Ninomiya, 2021	1.4929079	1.4149643	1.5751451
Abbas, 2020	1.5038142	1.4250351	1.5869484
Bose, 2019	1.5000864	1.4214607	1.5830611
Feng, 2019	1.4964237	1.4181178	1.5790536
Hamada, 2019	1.4986777	1.4203949	1.581275
Hulme, 2019	1.5097263	1.4313128	1.5924356
Kim, 2019	1.5006677	1.4049261	1.6029338
Kodani, 2019	1.497528	1.4195752	1.5797613
Rattani, 2019	1.4947912	1.4162502	1.5776877
Aronson, 2018	1.4974464	1.4184625	1.5808284
Austin, 2018	1.4965996	1.4186085	1.5788783
Khurshid, 2018	1.497129	1.4183621	1.5802702
Kim, 2018	1.4991148	1.4209478	1.5815818
Ogunmoroti, 2018	1.4987319	1.4203335	1.5814576
Ding, 2017	1.4953101	1.4174446	1.5774529
Hobbelt, 2017	1.4961448	1.4181224	1.5784597
Diouf, 2016	1.4985143	1.4207449	1.5805407

Kolek, 2016		1.4993396	1.4205122	1.5825412
Svennberg, 2016, PIVUS		1.4966245	1.4186753	1.5788566
Svennberg, 2016, ULSAM		1.4897555	1.4122558	1.5715084
Chyou, 2015		1.5017442	1.4230419	1.5847992
Guo, 2015		1.4920665	1.4139124	1.5745405
Kokubo, 2015		1.4930539	1.4151267	1.5752724
Nystrom, 2015		1.4939882	1.4160229	1.5762461
Pfister, 2015		1.4899063	1.412199	1.5718895
Qureshi, 2015		1.5047543	1.425867	1.5880061
Schnabel, 2015		1.4973549	1.4187465	1.5803187
Suzuki, 2015		1.5009463	1.4229344	1.583235
Knuiman, 2014		1.4933128	1.4152731	1.5756558
Sano, 2014		1.5096912	1.4309905	1.5927203
Alonso, 2013, AGES		1.4951352	1.41696	1.5776232
Alonso, 2013, CHS		1.4946015	1.4162953	1.5772372
Alonso, 2013, RS		1.4951017	1.4171069	1.5773892
Conen, 2013		1.4928628	1.4147041	1.5753396
Perez, 2013		1.4989314	1.4196699	1.5826182
Smith, 2013		1.4958363	1.4173179	1.5787045
Zoller, 2013		1.4679326	1.4183581	1.5192399
Lipworth, 2012		1.5016656	1.4230964	1.5845727
Nichols, 2009		1.5018666	1.4230348	1.5850652
Gami, 2007		1.4843477	1.4071448	1.5657862
Kim, 2007		1.4964409	1.4188254	1.5783024
Friberg, 2003		1.5004478	1.42212	1.5830895
Ruigomez, 2002		1.4907293	1.4127061	1.5730618
Tsang, 2001		1.4976336	1.4196048	1.5799513
Wilhelmsen, 2001		1.4934211	1.4154878	1.5756452
Krahn, 1995		1.4982611	1.4200191	1.5808141
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Combined		1.4968944	1.4194031	1.5786163

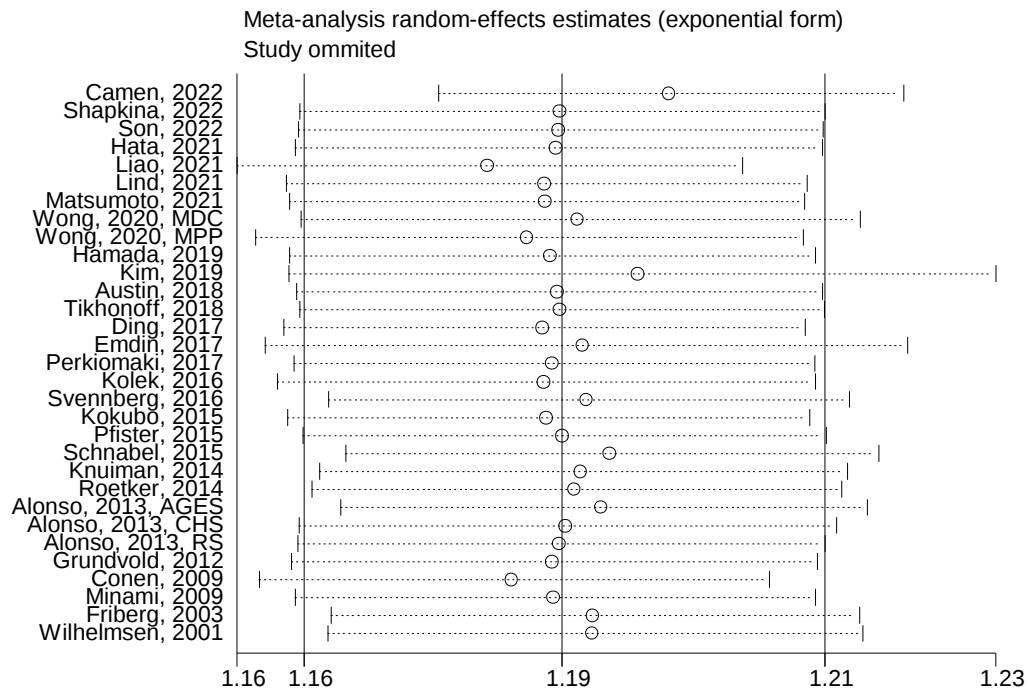
Supplementary Figure 3. Funnel plot for systolic blood pressure and atrial fibrillation



Supplementary Figure 4. Trim and fill plot for systolic blood pressure and atrial fibrillation



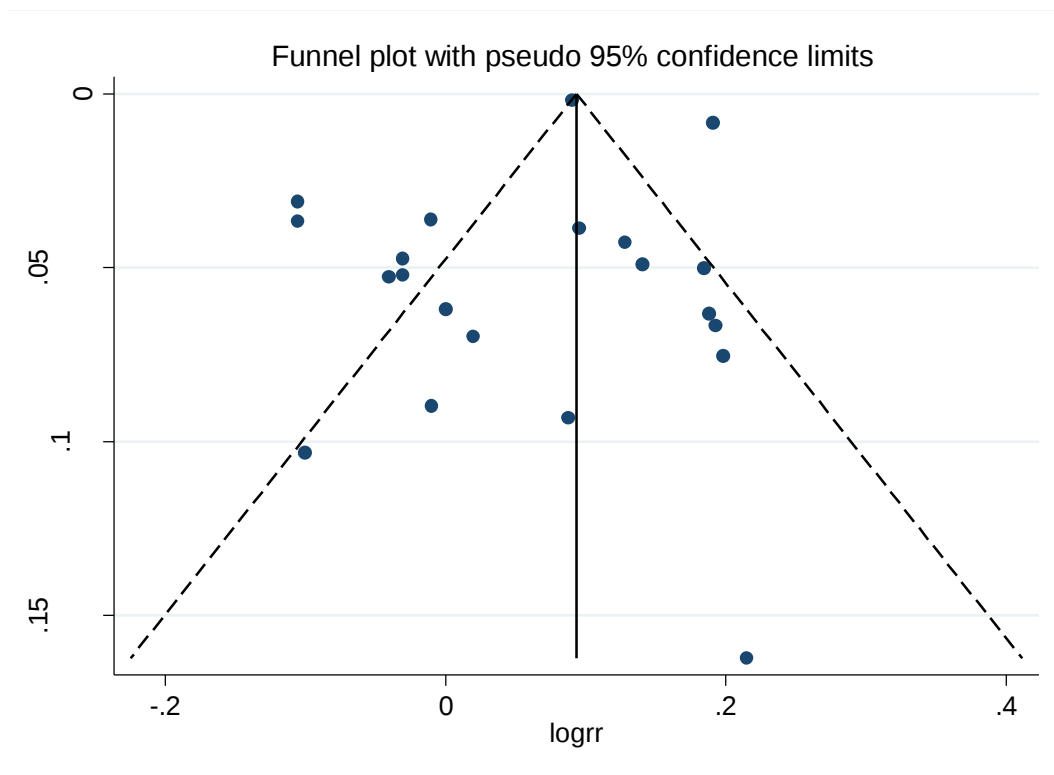
Supplementary Figure 5. Influence analysis of systolic blood pressure and atrial fibrillation



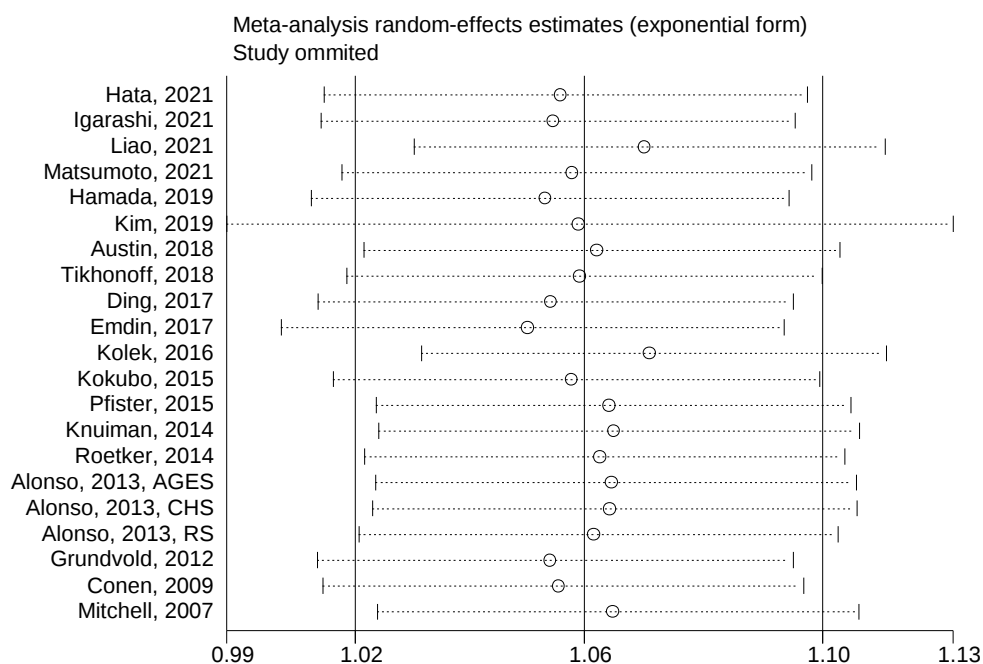
Study omitted	e ^{coef.}	[95% Conf. Interval]	
Camen, 2022	1.1976388	1.1767863	1.2188607
Shapkina, 2022	1.1877569	1.1642468	1.2117418
Son, 2022	1.1876185	1.1641256	1.2115855
Hata, 2021	1.1874317	1.1638235	1.2115189
Liao, 2021	1.1812114	1.1585784	1.2042863
Lind, 2021	1.1863358	1.1630076	1.2101319
Matsumoto, 2021	1.1863893	1.1633377	1.2098978
Wong, 2020, MDC	1.1893901	1.1643606	1.2149576
Wong, 2020, MPP	1.1847706	1.1602399	1.2098198
Hamada, 2019	1.1868715	1.1633159	1.2109041
Kim, 2019	1.1948248	1.1632785	1.2272266
Austin, 2018	1.1874925	1.1639433	1.2115182
Tikhonoff, 2018	1.1877543	1.1642627	1.2117198
Ding, 2017	1.1861609	1.1628008	1.2099904
Emdin, 2017	1.1898341	1.1611429	1.2192342
Perkiomaki, 2017	1.1870571	1.1637495	1.2108315
Kolek, 2016	1.186323	1.1622369	1.2109084
Svennberg, 2016	1.1901798	1.1668754	1.2139497
Kokubo, 2015	1.1865392	1.1631473	1.2104015
Pfister, 2015	1.1879704	1.1645403	1.2118719
Schnabel, 2015	1.1922623	1.1684034	1.2166083
Knuiman, 2014	1.1896825	1.1660655	1.2137779
Roetker, 2014	1.1890799	1.165357	1.2132857

Alonso, 2013, AGES	1.1915271	1.1679386	1.215592
Alonso, 2013, CHS	1.1882532	1.1641929	1.2128106
Alonso, 2013, RS	1.1876715	1.1640469	1.2117757
Grundvold, 2012	1.1870556	1.1634976	1.2110906
Conen, 2009	1.1834247	1.1605823	1.2067165
Minami, 2009	1.1871635	1.1638719	1.210921
Friberg, 2003	1.1907495	1.1670963	1.2148823
Wilhelmsen, 2001	1.1907203	1.1667671	1.2151653
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Combined	1.187972	1.1646698	1.2117404

Supplementary Figure 6. Funnel plot for diastolic blood pressure and atrial fibrillation



Supplementary Figure 7. Influence analysis of diastolic blood pressure and atrial fibrillation



Study omitted	e^coef.	[95% Conf. Interval]	
Hata, 2021	1.0550935	1.0117558	1.1002877
Igarashi, 2021	1.0537671	1.0112333	1.0980898
Liao, 2021	1.0705012	1.0282471	1.1144917
Matsumoto, 2021	1.0572239	1.0150645	1.1011344
Hamada, 2019	1.0522801	1.0094311	1.0969479
Kim, 2019	1.0583782	0.99392426	1.1270119
Austin, 2018	1.0617326	1.0190111	1.106245
Tikhonoff, 2018	1.0585077	1.0158653	1.1029401
Ding, 2017	1.0533018	1.0106745	1.0977271
Emdin, 2017	1.0490129	1.0039659	1.0960813
Kolek, 2016	1.0713086	1.0295725	1.1147367
Kokubo, 2015	1.0570489	1.013441	1.1025332
Pfister, 2015	1.0638981	1.0213573	1.1082107
Knuiman, 2014	1.0648957	1.0218056	1.109803
Roetker, 2014	1.0622835	1.0192127	1.1071745
Alonso, 2013, AGES	1.0643589	1.0212222	1.1093179
Alonso, 2013, CHS	1.0640514	1.0205945	1.1093588
Alonso, 2013, RS	1.0611291	1.018162	1.1059092
Grundvold, 2012	1.0532248	1.0105425	1.0977099
Conen, 2009	1.0546952	1.0115693	1.0996599
Mitchell, 2007	1.0646656	1.0214742	1.1096832
Combined	1.0594561	1.0175355	1.1031037

Supplementary Figure 8: Hypertension and atrial fibrillation, analyses stratified by ethnicity

