Supplementary Online Content

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This supplementary material has been provided by the authors to give readers additional information about their work.

eMETHODS

Study population and setting

The Copenhagen General Population Study (CGPS) is an ongoing prospective cohort study of the white Danish general population¹⁻³. Participants were selected through the Danish Civil Registration System in 2003-2015. All individuals of Danish descent aged 40+ years in selected parts of Copenhagen and surrounding country side were invited along with a random selection of 25% of individuals aged 20-39 years, with a participation rate of 43%. Thus, the CGPS covers all regions of Copenhagen including both high- and low-income areas.

The baseline examination included a questionnaire, a physical examination and blood sampling for biochemical measurements. Current smoking status and statin therapy was self-reported through the questionnaire. Blood pressure was measured using an automated Digital Blood Pressure Monitor (Kivex) after 5 min of rest with the individual in the sitting position. Plasma levels of total, low-density lipoprotein (LDL), and high-density lipoprotein (HDL) cholesterol, high-sensitivity C-reactive protein (hsCRP), triglycerides, and creatinine were measured with standard hospital assays. Missing data on these variables was <0.8%.

The study was approved by Herlev and Gentofte Hospital and by a Danish ethics committee. Written informed consent was obtained from all individuals.

Secondary prevention trials

Listed in chronological order by publication date, the following twelve studies are included in our analyses: The Improved Reduction of Outcomes: Vytorin Efficacy International Trial (IMPROVE-IT)⁴, Prevention of Cardiovascular Events in Patients with Prior Heart Attack Using Ticagrelor Compared to Placebo on a Background of Aspirin–Thrombolysis in Myocardial Infarction (PEGASUS)⁵, the Empagliflozin Cardiovascular Outcome Event Trial in Type 2 Diabetes Mellitus

Patients (**EMPA-REG**) ⁶, the Liraglutide Effect and Action in Diabetes: Evaluation of Cardiovascular Outcome Results (**LEADER**)⁷, the Trial to Evaluate Cardiovascular and Other Long-term Outcomes With Semaglutide in Subjects With Type 2 Diabetes (SUSTAIN-6)⁸, Further Cardiovascular Outcomes Research with PCSK9 Inhibition in Subjects with Elevated Risk (**FOURIER**)⁹, CANagliflozin cardioVascular Assessment Study (**CANVAS**)¹⁰, Randomized EValuation of the Effects of Anacetrapib Through Lipid-modification (**REVEAL**)¹¹, The Canakinumab Anti-inflammatory Thrombosis Outcomes Study (CANTOS)¹², the Cardiovascular Outcomes for People Using Anticoagulation Strategies (COMPASS)¹³, the Evaluation of Cardiovascular Outcomes After an Acute Coronary Syndrome During Treatment With Alirocumab (**ODYSSEY-OUTCOMES**) ¹⁴ and the Reduction of Cardiovascular Events with Icosapent Ethyl – Intervention Trial (**REDUCE-IT**) ¹⁵. The enrollment criteria used in these trials are shown in **Supplementary Table 1.** In order to assess the maximal potential eligibility in the general population over time by implementing RCT evidence from the twelve trials in clinical practice, we did not require strict adherence to the time-criteria for recent ASCVD used in the trials. For example, in the IMPROVE-IT trial individuals should have been hospitalized with an acute coronary syndrome within 10 days to be eligible for ezetimibe. In the main analyses, all patients with a previous acute coronary syndrome could therefore be eligible for ezetimibe if they met all the other inclusion criteria. However, in sensitivity analyses, we stringently followed the timecriteria for ASCVD used in clinical trials. These sensitivity analyses simulate the instant eligibility for new pharmacological therapies in the general population by immediate implementation of RCT evidence in clinical practice tomorrow.

It is unlikely that individuals will be assigned 2 of the novel drugs that targets the same biological pathway for cardiovascular disease prevention, (ie. two novel anti-thrombotic: ticagrelor + rivaroxaban). Thus, to determine if individuals potentially could be eligible for two or

more new drugs simultaneously, we divided the drug therapies into 4 different drug-classes: lipid-modifying, anti-thrombotic, anti-inflammatory, and anti-diabetic drugs.

Outcomes

Myocardial infarction, stroke, cardiovascular deaths and all-cause mortality were identified by linkage to the nation-wide Danish Patient Registry (covering all Danish Hospitals) and the nation-wide Danish Register of Causes of Death, using international Classification of Diseases, 10th Revision, codes I21-I22 for myocardial infarction, I20-I25 for ischemic heart disease, and I60, I61, I63, I64 and G45 for strokes. The validity of myocardial infarction diagnosis obtained from the Danish Patient Registry have been shown to be very high¹⁶. We validated stroke events using the World Health Organizations definition of stroke, that is, an acute disturbance of focal or global cerebral function with symptoms lasting longer than 24 hours or leading to death, with presumably no other reason than a vascular origin, as previously described¹⁷. Cardiovascular deaths were defined as deaths from ICD-10 codes I10-25, I44-51 and I61-73, obtained by linkage to the national Danish Cause of Death Registry

All residents in Denmark are assigned a personal identification number at birth or immigration, by which they can be traced in the national registries and therefore follow-up of all individuals in CGPS was without losses. The 448 individuals who emigrated had follow-up truncated at the date of emigration.

Statistical analysis

Baseline characteristics are presented as proportions for categorical variables and as medians (interquartile ranges) for continuous variables. We used Stata version 13.1 SE (StataCorp LP, College Station, Texas).

First, we determined the proportions of individuals in the general population overall as well as in those with IHD or MI who are eligible for novel preventive therapies by meeting enrollment criteria (inclusion as well as exclusion criteria) in the twelve RCTs. We assessed 1) the proportion of individuals eligible for at least 1 new drug, 2) the proportion meeting criteria in 0, 1, 2, 3 or ≥4 trials simultaneously, and 3) the proportion eligible for 0, 1, 2, 3 or 4 of the four different drug-classes simultaneously (lipid-modifying, anti-thrombotic, anti-inflammatory, and anti-diabetic drugs). We also calculated event rates per 1000 person-years among CGPS participants eligible for novel preventive therapies and compared them to those reported in the RCTs. If event-rates was not specifically reported in the RCTs, we estimated event-rates per 1000 person-years based on mean follow-up time and number of events in the placebo groups of the RCTs.

Second, we estimated the evidence-based potential for reduction of MI, stroke and all-cause mortality over 5 years through prescription of each novel therapy according to clinical trial criteria. We choose 5 years because this mimic the follow-up length in most trials. For these analyses, we first estimated the total number of MI, stroke and all-cause mortality events in 5 years in the overall population as well as in individuals with IHD and MI at baseline, using Kaplan-Meier analysis. Likewise, we estimated the total number of MI, stroke and all-cause mortality events in 5 years among trial eligible individuals. To estimate the potential reduction of events using each novel therapy, we used hazard ratios for each active therapy versus placebo for MI, stroke and all-cause mortality reduction as reported in the RCTs to calculate how many events that might have been averted by active treatment. The potential for event reduction in 5 years was then calculated as the number of events averted by assigning the novel preventive therapies according to clinical trial criteria divided by the total number of events. These calculations were performed in the overall population as well as among individuals with IHD or MI at baseline.

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References

- 1. Jørgensen AB, Frikke-Schmidt R, Nordestgaard BG, Tybjaerg-Hansen A. Loss-of-function mutations in APOC3 and risk of ischemic vascular disease. *N Engl J Med*. 2014;371(1):32-41. doi:10.1056/NEJMoa1308027.
- 2. Mortensen MB, Afzal S, Nordestgaard BG, Falk E. Primary Prevention With Statins: ACC/AHA Risk-Based Approach Versus Trial-Based Approaches to Guide Statin Therapy. *Journal of the American College of Cardiology*. 2015;66(24):2699-2709. doi:10.1016/j.jacc.2015.09.089.
- 3. Mortensen MB, Nordestgaard BG. Comparison of Five Major Guidelines for Statin Use in Primary Prevention in a Contemporary General Population. *Ann Intern Med.* January 2018. doi:10.7326/M17-0681.
- 4. Cannon CP, Blazing MA, Giugliano RP, et al. Ezetimibe Added to Statin Therapy after Acute Coronary Syndromes. *N Engl J Med*. 2015;372(25):2387-2397. doi:10.1056/NEJMoa1410489.
- 5. Bonaca MP, Bhatt DL, Cohen M, et al. Long-term use of ticagrelor in patients with prior myocardial infarction. *N Engl J Med*. 2015;372(19):1791-1800. doi:10.1056/NEJMoa1500857.
- 6. Zinman B, Wanner C, Lachin JM, et al. Empagliflozin, Cardiovascular Outcomes, and Mortality in Type 2 Diabetes. *N Engl J Med*. 2015;373(22):2117-2128. doi:10.1056/NEJMoa1504720.
- 7. Marso SP, Daniels GH, Brown-Frandsen K, et al. Liraglutide and Cardiovascular Outcomes in Type 2 Diabetes. *N Engl J Med*. 2016;375(4):311-322. doi:10.1056/NEJMoa1603827.
- 8. Marso SP, Bain SC, Consoli A, et al. Semaglutide and Cardiovascular Outcomes in Patients with Type 2 Diabetes. *N Engl J Med*. 2016;375(19):1834-1844. doi:10.1056/NEJMoa1607141.
- 9. Sabatine MS, Giugliano RP, Keech AC, et al. Evolocumab and Clinical Outcomes in Patients with Cardiovascular Disease. *N Engl J Med.* 2017;376(18):1713-1722. doi:10.1056/NEJMoa1615664.
- 10. Neal B, Perkovic V, Mahaffey KW, et al. Canagliflozin and Cardiovascular and Renal Events in Type 2 Diabetes. *N Engl J Med*. 2017;377(7):644-657. doi:10.1056/NEJMoa1611925.
- 11. HPS3/TIMI55–REVEAL Collaborative Group, Bowman L, Hopewell JC, et al. Effects of Anacetrapib in Patients with Atherosclerotic Vascular Disease. *N Engl J Med*. 2017;377(13):1217-1227. doi:10.1056/NEJMoa1706444.
- 12. Ridker PM, Everett BM, Thuren T, et al. Antiinflammatory Therapy with Canakinumab for Atherosclerotic Disease. *N Engl J Med*. 2017;377(12):1119-1131. doi:10.1056/NEJMoa1707914.
- 13. Eikelboom JW, Connolly SJ, Bosch J, et al. Rivaroxaban with or without Aspirin in Stable Cardiovascular Disease. *N Engl J Med.* 2017;377(14):1319-1330. doi:10.1056/NEJMoa1709118.

- 14. Schwartz GG, Steg PG, Szarek M, et al. Alirocumab and Cardiovascular Outcomes after Acute Coronary Syndrome. *N Engl J Med*. November 2018. doi:10.1056/NEJMoa1801174.
- 15. Bhatt DL, Steg PG, Miller M, et al. Cardiovascular Risk Reduction with Icosapent Ethyl for Hypertriglyceridemia. *N Engl J Med*. November 2018. doi:10.1056/NEJMoa1812792.
- 16. Sundbøll J, Adelborg K, Munch T, et al. Positive predictive value of cardiovascular diagnoses in the Danish National Patient Registry: a validation study. *BMJ Open.* 2016;6(11):e012832. doi:10.1136/bmjopen-2016-012832.
- 17. Brøndum-Jacobsen P, Nordestgaard BG, Schnohr P, Benn M. 25-hydroxyvitamin D and symptomatic ischemic stroke: an original study and meta-analysis. *Ann Neurol*. 2013;73(1):38-47. doi:10.1002/ana.23738.

eTable 1: Main inclusion criteria used in the 12 randomized controlled trials for prevention of atherosclerotic cardiovascular disease.

IMPROVE- IT	PEGASUS	EMPA-REG	LEADER	SUSTAIN-6	FOURIER	CANVAS	REVEAL	CANTOS	COMPASS	ODYSSEY Outcomes	REDUCE-IT
Age ≥18 years	Age ≥50 years	Age ≥18 years	Age ≥50 years	Age ≥50 years	Age 40-85 years	Age ≥30 years	Age ≥50 years	Age ≥18 years	Age ≥18 years	Age ≥40 years	Age ≥45 years
Plus	Plus	Plus	Plus	Plus	Plus	Plus	Plus	Plus	Plus	Plus	Plus
maximum 10 days following hospital admission for ACS Plus LDL ≤ 125 mg/dL if not on statin Or LDL ≤ 100 mg/dL if on statin	MI within 1-3 years ago Plus At least one additional risk factor: age ≥65 or chronic, non-end- stage kidney disease	Plus Plus BMI ≤ 45 kg/m² Plus A high cardiovascular risk defined as: known ischemic heart disease, previous stroke or peripheral artery disease (ankle brachial index <0.9)	Type 2 diabetes Plus At least one of the following criteria: Prior MI, Prior stroke or TIA, Ischemic heart disease, chronic kidney disease (eGFR<60 mL/min) Or Age ≥60 and ankle brachial index <0.9	Type 2 diabetes Plus Established cardiovascular disease defined as: prior MI, prior stroke, ischemic heart disease, chronic kidney disease (eGFR-60 mI/min). Cardiovascular events should be >90 days prior to inclusion. Or Age ≥60 and ankle brachial index <0.9	Clinical evident atherosclerotic cardiovascular disease (MI or stroke) Plus LDL ≥70 mg/dL on statin therapy Plus Age ≥65 years Or Index event within 6 months to screening Or ≥2 of the following risk factors: low HDL (<40mg/dL in men and <50mg/dL in women), hsCRP >2.0 mg/L, current smoker, age>60 years, hyperlipidemia (LDL ≥130mg/dL or non-HDL ≥160 mg/dL) or metabolic syndrome	Documented atherosclerotic cardiovascular disease defined as: prior MI, prior stroke, ischemic heart disease Or Age ≥50 years with 2 or more of the following: systolic blood pressure >140 mmHg, smoking or HDL cholesterol <39 mg/dL.	Total cholesterol clos's mg/dL and creatinine < 200 µmol/L Plus Myocardial infarction Or Ischemic stroke Or Diabetes together with ischemic heart disease	MI at least 30 days before randomization Plus hsCRP=2 mg/L	Coronary artery disease Plus Age ≥65 Or Age<65 with at least two additional risk factors: renal dysfunction (eGFR-60 ml/min), diabetes, smoking or ischemic stroke >1 month ago.	Recently (<52 weeks) hospitalized for ACS Plus LDL >70 mg/dL on statin therapy	Documented coronary artery disease or cerebrovascular disease Plus Triglycerides 135-499 mg/dL and LDL 41-100 mg/dL and on statin therapy Or Age ≥50 years Plus Diabetes with at least one additional risk factor: age ≥55 years in men or ≥65 years of age in women, current smoking, hypertension, HDL ≤ 40 mg/dL in men or ≤ 50 mg/dL in women, hSCRP >30 and <60 mL/min Plus Triglycerides 135-499 mg/dL and LDL 41-100 mg/dL and con statin therapy

The Improved Reduction of Outcomes: Vytorin Efficacy International Trial (IMPROVE-IT), Prevention of Cardiovascular Events in Patients with Prior Heart Attack Using Ticagrelor Compared to Placebo on a Background of Aspirin—Thrombolysis in Myocardial Infarction 54 (PEGASUS), the Empagliflozin Cardiovascular Outcome Event Trial in Type 2 Diabetes Mellitus Patients (EMPA-REG), the Liraglutide Effect and Action in Diabetes: Evaluation of Cardiovascular Outcome Results (LEADER), the Trial to Evaluate Cardiovascular and Other Long-term Outcomes With Semaglutide in Subjects With Type 2 Diabetes (SUSTAIN-6), Further Cardiovascular Outcomes Research with PCSK9 Inhibition in Subjects with Elevated Risk (FOURIER), CANagliflozin cardioVascular Assessment Study (CANVAS), Randomized EValuation of the Effects of Anacetrapib Through Lipid-modification (REVEAL), The Canakinumab Anti-inflammatory Thrombosis Outcomes Study (CANTOS) and the Cardiovascular Outcomes for People Using Anticoagulation Strategies (COMPASS), Evaluation of Cardiovascular Outcomes After an Acute Coronary Syndrome During Treatment With Alirocumab (ODYSSEY Outcomes), Reduction of Cardiovascular Events with EPA — Intervention Trial (REDUCE-IT). LDL: low-density lipoprotein, MI: Myocardial infarction, BMI: body mass index, eGFR: estimated glomerular filtration rate, HDL: high-density lipoprotein, hsCRP: high-sensitive C-reaktive protein.

eTable 2. Event rates for major cardiovascular events, myocardial infarction, stroke and all-cause mortality per 1000 person-years among trial-eligible individuals and in the total Copenhagen General Population Study cohort.

Outcome													
	All	IMPROV E-IT	PEGASU S	EMPA -REG	LEADE R	SUSTAI N-6	FOURIE R	CANVA S	REVEA L	CANTO S	COMPAS S	ODYSSE Y	REDUC E-IT
Ischemic heart disease													
Major cardiovascul ar events*	31.5 (29.8 - 33.4)	41.5 (37.8-45.5)	37.3 (28.9-48.0)	44.8 (39.0- 51.3)	47.0 (41.0- 53.8)	47.0 (41.1-53.8)	40.5 (36.6-44.8)	44.7 (39.1- 51.3)	42.8 (37.0-49.4)	54.6 (48.5- 61.6)	41.8 (39.3-44.5)	39.9 (36.1-44.2)	35.0 (30.5-40.2)
MI	10.6 (9.7- 11.6)	12.5 (10.7-14.5)	13.1 (11.2-15.5)	15.1 (12.2- .18.7)	15.4 (12.5- 19.0)	15.4 (12.5-19.0)	12.7 (10.7-14.9)	15.2 (12.3- 18.7)	12.9 (10.2-16.3)	15.1 (12.4- 18.4)	12.2 (11.0-13.5)	12.6 (10.7-14.8)	13.0 (10.5-16.1)
Stroke	9.8 (8.9- 10.7)	10.3 (8.8-12.0)	10.9 (9.2-12.9)	13.1 (10.5- 16.4)	13.1 (10.5- 16.4)	13.1 (10.5-16.4)	10.0 (8.4-11.9)	13.2 (10.6- 16.4)	11.9 (9.4-15.0)	12.7 (10.4- 15.6)	11.9 (10.8-13.2)	10.5 (8.8-12.4)	9.5 (7.5-12.0)
All-cause mortality	32.0 (30.3 - 33.7)	42.6 (39.4-46.2)	43.8 (35.4-54.4))	47.0 (41.6- 53.1)	50.0 (44.3-56.2)	49.9 (44.3-56.2)	38.9 (35.5-42.5)	46.9 (41.6- 53.0)	47.6 (42.2- 53.8)	57.1 (51.6- 63.2)	45.9 (43.4-48.5)	39.9 (36.5-43.6)	35.7 (31.5-40.4)
Myocardial infarction													
Major cardiovascul ar events*	39.9 (36.5 - 43.5)	41.5 (37.8-45.5)	37.3 28.9-48.0)	50.6 (41.2- 62.2)	52.3 (42.6- 64.1)	52.3 (42.6-64.1)	39.7 (35.7-44.1)	50.8 (41.3- 62.4)	41.5 (34.9-49.3)	54.6 (48.5- 61.6)	49.9 (45.3-55.0)	39.9 (36.1-44.2)	36.5 (36.5-44.7)
MI	12.5 (10.8 - 14.4)	12.5 (10.7-14.5)	13.1 (11.2-15.5)	14.7 (10.4- 20.6)	15.1 (10.8- 21.2)	15.1 (10.8-21.2)	12.7 (10.7-15.0)	15.0 (10.7- 21.0)	11.9 (8.9-15.9)	15.1 (12.4- 18.4)	13.4 (11.4-15.8)	12.6 (10.7-14.8)	12.7 (9.2-17.5)
Stroke	9.8 (8.4- 11.3)	10.3 (8.8-12.0)	10.9 (9.2-12.9)	11.8 (8.3- 16.7)	11.7 (8.2-16.6)	11.7 (8.2-16.6)	9.4 (7.8-11.3)	11.7 (8.2-16.6)	10.0 (7.5-13.4)	12.7 (10.4- 15.6)	10.9 (9.2-12.9)	10.5 (8.8-12.4)	9.6 (6.9-13.4)
All-cause mortality	41.3	42.6 (39.4-46.2)	43.8 (35.4-54.4)	54.1 (45.4- 64.4)	55.6 (46.8- 66.2)	55.6 (46.8-66.2)	38.3 (34.8-42.0)	54.1 (45.4-64.4)	48.0 (41.7-55.1)	57.1 (51.6- 63.2)	56.6 (52.3-61.3)	39.9 (36.5- 43.6)	40.0 (33.8-47.4)
	44.6)												
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Event rates with 95% confidence interval. MI: Myocardial infarction. *Major cardiovascular events = myocardial infarction, stroke and cardiovascular death.

eTable 3. Estimated major cardiovascular events, myocardial infarctions, strokes and deaths prevented in 5 years among individuals with ischemic heart disease by each trial.

							Ever	nts in trial	eligible				
								parti	cipants				
Potential	All	IMPROVE-	PEGASUS	EMPA-	LEADER	SUSTAIN-	FOURIER	CANVAS	REVEAL	CANTOS	COMPASS	ODYSSEY	REDUCE-
Outcomes		IT		REG		6							IT
			<u> </u>		<u> </u>		l		l .	l .		<u> </u>	<u> </u>
Major	<u> </u>												
cardiovascular													
event													
prevention*													
Kaplan-Meier	877	374	350	160	168	168	313	161	105*	230	725	305	141
estimated 5 year													
events													
Relative		0.90	0.84	0.86	0.87	0.74	0.80	0.86	0.89	0.88	0.76	0.85	0.74
risk		(0.84-0.96)	(0.74-0.95)	(0.74-	(0.78-	(0.58-0.95)	(0.73-	(0.72-	(0.81-	(0.79-	(0.66-0.86)	(0.78-0.93)	(0.68-0.83)
reduction				0.99)	0.97)		0.88)	0.97)	0.97)	0.97)			
from trial													
results													
Estimated		37	56	22	22	44	63	23	12	28	174	46	37
events		(15-60)	(17-91)	(3-42)	(5-37)	(8-71)	(38-85)	(4-45)	(3-20)	(7-48)	(101-246)	(21-67)	(24-45)
prevented		(13-00)	(17-21)	(3-42)	(7-5/)	(0-/1)	(20-02)	(4-45)	(3-20)	(7-40)	(101-240)	(21-0/)	(24-43)
in CGPS													
iii COFS													
Decomin		4.2	6.4	2.5	2.5	5.0	7.2	2.6	1.4	3.2	19.8	5.2	4.2
Proportion			6.4						1.4				
of all		(1.7-6.8)	(1.9-10.4)	(0.3-	(0.6-4.2)	(0.9-8.1)	(4.3-9.7)	(0.5-5.1)	(0.3-2.3)	(0.8-5.5)	(11.5-28.0)	(2.4-7.6)	(2.7-5.1)
events				4.8)									
prevented,													
%													
MI prevention													
Kaplan-Meier		139	118	61	63	63	120	62	60	81	267	117	64
reapian-iviciei	343												
	343												
estimated 5 year	343												
estimated 5 year	343												
estimated 5 year	343	0.87	0.81	0.87	0.86	0.74	0.73	0.89	0.87	0.84	0.86	0.86	0.69
estimated 5 year events	343		0.81 (0.69-0.95)	0.87 (0.70-	0.86 (0.73-	0.74 (0.51-1.08)	0.73 (0.65-0.82)	0.89 (0.73-	0.87 (0.78-	0.84	0.86 (0.70-1.05)	0.86 (0.77-0.96)	0.69 (0.58-0.81)
estimated 5 year events	343	0.87		(0.70-	(0.73-			(0.73-	(0.78-	(0.73-			
estimated 5 year events Relative risk	343	0.87											
estimated 5 year events Relative risk reduction from trial	343	0.87		(0.70-	(0.73-			(0.73-	(0.78-	(0.73-			
estimated 5 year events Relative risk reduction	343	0.87		(0.70-	(0.73-			(0.73-	(0.78-	(0.73-			
Relative risk reduction from trial results	343	0.87 (0.80-0.95)	(0.69-0.95)	(0.70- 1.09)	(0.73- 1.0)	(0.51-1.08)	(0.65-0.82)	(0.73- 1.09)	(0.78- 0.96)	(0.73- 0.97)	(0.70-1.05)	(0.77-0.96)	(0.58-0.81)
estimated 5 year events Relative risk reduction from trial results Estimated	343	0.87 (0.80-0.95)	(0.69-0.95)	(0.70- 1.09)	(0.73- 1.0)	(0.51-1.08)	(0.65-0.82)	(0.73- 1.09)	(0.78- 0.96)	(0.73- 0.97)	(0.70-1.05)	(0.77-0.96)	(0.58-0.81)
Relative risk reduction from trial results Estimated events	343	0.87 (0.80-0.95)	(0.69-0.95)	(0.70- 1.09)	(0.73- 1.0)	(0.51-1.08)	(0.65-0.82)	(0.73- 1.09)	(0.78- 0.96)	(0.73- 0.97)	(0.70-1.05)	(0.77-0.96)	(0.58-0.81)
Relative risk reduction from trial results Estimated events prevented	343	0.87 (0.80-0.95)	(0.69-0.95)	(0.70- 1.09)	(0.73- 1.0)	(0.51-1.08)	(0.65-0.82)	(0.73- 1.09)	(0.78- 0.96)	(0.73- 0.97)	(0.70-1.05)	(0.77-0.96)	(0.58-0.81)
estimated 5 year events Relative risk reduction from trial results Estimated events	343	0.87 (0.80-0.95)	(0.69-0.95)	(0.70- 1.09)	(0.73- 1.0)	(0.51-1.08)	(0.65-0.82)	(0.73- 1.09)	(0.78- 0.96)	(0.73- 0.97)	(0.70-1.05)	(0.77-0.96)	(0.58-0.81)
Relative risk reduction from trial results Estimated events prevented in CGPS	343	0.87 (0.80-0.95)	(0.69-0.95) 22 (6-37)	(0.70- 1.09) 8 (-5-18)	(0.73- 1.0) 9 (0-17)	(0.51-1.08) 16 (-5-31)	(0.65-0.82) 33 (22-42)	(0.73- 1.09) 6 (-6-17)	(0.78- 0.96) 8 (2-13)	(0.73- 0.97) 13 (2-22)	(0.70-1.05) 37 (-13-80)	(0.77-0.96) 16 (5-27)	20 (12-27)
estimated 5 year events Relative risk reduction from trial results Estimated events prevented in CGPS	343	0.87 (0.80-0.95) 18 (7-28)	(0.69-0.95) 22 (6-37)	(0.70- 1.09) 8 (-5-18)	(0.73- 1.0) 9 (0-17)	(0.51-1.08) 16 (-5-31)	33 (22-42)	(0.73- 1.09) 6 (-6-17)	(0.78- 0.96) 8 (2-13)	(0.73- 0.97) 13 (2-22)	(0.70-1.05) 37 (-13-80)	(0.77-0.96) 16 (5-27)	20 (12-27)
Relative risk reduction from trial results Estimated events prevented in CGPS Proportion of all	343	0.87 (0.80-0.95)	(0.69-0.95) 22 (6-37)	(0.70- 1.09) 8 (-5-18)	(0.73- 1.0) 9 (0-17)	(0.51-1.08) 16 (-5-31)	(0.65-0.82) 33 (22-42)	(0.73- 1.09) 6 (-6-17)	(0.78- 0.96) 8 (2-13)	(0.73- 0.97) 13 (2-22)	(0.70-1.05) 37 (-13-80)	(0.77-0.96) 16 (5-27)	20 (12-27)
Relative risk reduction from trial results Estimated events prevented in CGPS Proportion of all events	343	0.87 (0.80-0.95) 18 (7-28)	(0.69-0.95) 22 (6-37)	(0.70- 1.09) 8 (-5-18)	(0.73- 1.0) 9 (0-17)	(0.51-1.08) 16 (-5-31)	33 (22-42)	(0.73- 1.09) 6 (-6-17)	(0.78- 0.96) 8 (2-13)	(0.73- 0.97) 13 (2-22)	(0.70-1.05) 37 (-13-80)	(0.77-0.96) 16 (5-27)	20 (12-27)
Relative risk reduction from trial results Estimated events prevented in CGPS Proportion of all events prevented,	343	0.87 (0.80-0.95) 18 (7-28)	(0.69-0.95) 22 (6-37)	(0.70- 1.09) 8 (-5-18)	(0.73- 1.0) 9 (0-17)	(0.51-1.08) 16 (-5-31)	33 (22-42)	(0.73- 1.09) 6 (-6-17)	(0.78- 0.96) 8 (2-13)	(0.73- 0.97) 13 (2-22)	(0.70-1.05) 37 (-13-80)	(0.77-0.96) 16 (5-27)	20 (12-27)
Relative risk reduction from trial results Estimated events prevented in CGPS Proportion of all events prevented, %	343	0.87 (0.80-0.95) 18 (7-28)	(0.69-0.95) 22 (6-37)	(0.70- 1.09) 8 (-5-18)	(0.73- 1.0) 9 (0-17)	(0.51-1.08) 16 (-5-31)	33 (22-42)	(0.73- 1.09) 6 (-6-17)	(0.78- 0.96) 8 (2-13)	(0.73- 0.97) 13 (2-22)	(0.70-1.05) 37 (-13-80)	(0.77-0.96) 16 (5-27)	20 (12-27)
Relative risk reduction from trial results Estimated events Proportion of all events prevented, % Stroke	343	0.87 (0.80-0.95) 18 (7-28)	(0.69-0.95) 22 (6-37)	(0.70- 1.09) 8 (-5-18)	(0.73- 1.0) 9 (0-17)	(0.51-1.08) 16 (-5-31)	33 (22-42)	(0.73- 1.09) 6 (-6-17)	(0.78- 0.96) 8 (2-13)	(0.73- 0.97) 13 (2-22)	(0.70-1.05) 37 (-13-80)	(0.77-0.96) 16 (5-27)	20 (12-27)
Relative risk reduction from trial results Estimated events prevented in CGPS Proportion of all events prevented, %	343	0.87 (0.80-0.95) 18 (7-28)	(0.69-0.95) 22 (6-37)	(0.70- 1.09) 8 (-5-18)	(0.73- 1.0) 9 (0-17)	(0.51-1.08) 16 (-5-31)	33 (22-42)	(0.73- 1.09) 6 (-6-17)	(0.78- 0.96) 8 (2-13)	(0.73- 0.97) 13 (2-22)	(0.70-1.05) 37 (-13-80)	(0.77-0.96) 16 (5-27)	20 (12-27)
Relative risk reduction from trial results Estimated events Proportion of all events prevented, % Stroke prevention	321	0.87 (0.80-0.95) 18 (7-28)	(0.69-0.95) 22 (6-37)	(0.70- 1.09) 8 (-5-18)	(0.73- 1.0) 9 (0-17)	(0.51-1.08) 16 (-5-31)	33 (22-42)	(0.73- 1.09) 6 (-6-17)	(0.78- 0.96) 8 (2-13)	(0.73- 0.97) 13 (2-22)	(0.70-1.05) 37 (-13-80)	(0.77-0.96) 16 (5-27)	20 (12-27)
Relative risk reduction from trial results Estimated events revented in CGPS Proportion of all events prevented, % Stroke prevention Kaplan-Meier		0.87 (0.80-0.95) 18 (7-28) 5.2 (2.0-8.2)	(0.69-0.95) 22 (6-37) 6.4 (1.7-10.8)	(0.70- 1.09) 8 (-5-18) 2.3 (-1.6 - 5.2)	(0.73- 1.0) 9 (0-17) 2.6 (0-5.0)	(0.51-1.08) 16 (-5-31) 4.7 (-1.7-10.6)	(0.65-0.82) 33 (22-42) 9.6 (6.4-12.2)	(0.73- 1.09) 6 (-6-17) 1.7 (-1.7-5.0)	(0.78- 0.96) 8 (2-13) 2.3 (0.5-3.8)	(0.73- 0.97) 13 (2-22) 3.8 (0.6-6.4)	(0.70-1.05) 37 (-13-80) 10.8 (-3.8-23.3)	(0.77-0.96) 16 (5-27) 4.5 (1.5-7.9)	20 (12-27) 5.8 (3.5-7.9)
Relative risk reduction from trial results Estimated events prevented in CGPS Proportion of all events prevented, % Stroke prevention Kaplan-Meier estimated 5 year		0.87 (0.80-0.95) 18 (7-28) 5.2 (2.0-8.2)	(0.69-0.95) 22 (6-37) 6.4 (1.7-10.8)	(0.70- 1.09) 8 (-5-18) 2.3 (-1.6 - 5.2)	(0.73- 1.0) 9 (0-17) 2.6 (0-5.0)	(0.51-1.08) 16 (-5-31) 4.7 (-1.7-10.6)	(0.65-0.82) 33 (22-42) 9.6 (6.4-12.2)	(0.73- 1.09) 6 (-6-17) 1.7 (-1.7-5.0)	(0.78- 0.96) 8 (2-13) 2.3 (0.5-3.8)	(0.73- 0.97) 13 (2-22) 3.8 (0.6-6.4)	(0.70-1.05) 37 (-13-80) 10.8 (-3.8-23.3)	(0.77-0.96) 16 (5-27) 4.5 (1.5-7.9)	20 (12-27) 5.8 (3.5-7.9)
Relative risk reduction from trial results Estimated events prevented in CGPS Proportion of all events prevented, % Stroke prevention Kaplan-Meier estimated 5 year		0.87 (0.80-0.95) 18 (7-28) 5.2 (2.0-8.2)	(0.69-0.95) 22 (6-37) 6.4 (1.7-10.8)	(0.70- 1.09) 8 (-5-18) 2.3 (-1.6 - 5.2)	(0.73- 1.0) 9 (0-17) 2.6 (0-5.0)	(0.51-1.08) 16 (-5-31) 4.7 (-1.7-10.6)	(0.65-0.82) 33 (22-42) 9.6 (6.4-12.2)	(0.73- 1.09) 6 (-6-17) 1.7 (-1.7-5.0)	(0.78- 0.96) 8 (2-13) 2.3 (0.5-3.8)	(0.73- 0.97) 13 (2-22) 3.8 (0.6-6.4)	(0.70-1.05) 37 (-13-80) 10.8 (-3.8-23.3)	(0.77-0.96) 16 (5-27) 4.5 (1.5-7.9)	20 (12-27) 5.8 (3.5-7.9)
Relative risk reduction from trial results Estimated events revented in CGPS Proportion of all events prevented, % Stroke Stroke Kaplan-Meier estimated 5 year events		0.87 (0.80-0.95) 18 (7-28) 5.2 (2.0-8.2)	(0.69-0.95) 22 (6-37) 6.4 (1.7-10.8)	(0.70- 1.09) 8 (-5-18) 2.3 (-1.6 - 5.2)	(0.73- 1.0) 9 (0-17) 2.6 (0-5.0)	(0.51-1.08) 16 (-5-31) 4.7 (-1.7-10.6)	(0.65-0.82) 33 (22-42) 9.6 (6.4-12.2)	(0.73- 1.09) 6 (-6-17) 1.7 (-1.7-5.0)	(0.78- 0.96) 8 (2-13) 2.3 (0.5-3.8)	(0.73- 0.97) 13 (2-22) 3.8 (0.6-6.4)	(0.70-1.05) 37 (-13-80) 10.8 (-3.8-23.3)	(0.77-0.96) 16 (5-27) 4.5 (1.5-7.9)	(0.58-0.81) 20 (12-27) 5.8 (3.5-7.9)
Relative risk reduction from trial results Estimated events prevented in CGPS Proportion of all events prevented, % Stroke Prevention Kaplan-Meier estimated 5 year events Relative		0.87 (0.80-0.95) 18 (7-28) 5.2 (2.0-8.2)	(0.69-0.95) 22 (6-37) 6.4 (1.7-10.8)	(0.70- 1.09) 8 (-5-18) 2.3 (-1.6 – 5.2)	(0.73- 1.0) 9 (0-17) 2.6 (0-5.0)	(0.51-1.08) 16 (-5-31) 4.7 (-1.7-10.6)	9.6 (6.4-12.2)	(0.73- 1.09) 6 (-6-17) 1.7 (-1.7-5.0)	(0.78- 0.96) 8 (2-13) 2.3 (0.5-3.8)	(0.73- 0.97) 13 (2-22) 3.8 (0.6-6.4)	(0.70-1.05) 37 (-13-80) 10.8 (-3.8-23.3) 253	(0.77-0.96) 16 (5-27) 4.5 (1.5-7.9)	(0.58-0.81) 20 (12-27) 5.8 (3.5-7.9)
Relative risk reduction from trial results Estimated events Estimated events prevented in CGPS Proportion of all events prevented, % Stroke prevention Kaplan-Meier estimated 5 year events Relative risk		0.87 (0.80-0.95) 18 (7-28) 5.2 (2.0-8.2)	(0.69-0.95) 22 (6-37) 6.4 (1.7-10.8)	(0.70- 1.09) 8 (-5-18) 2.3 (-1.6 - 5.2) 56	(0.73- 1.0) 9 (0-17) 2.6 (0-5.0) 55	(0.51-1.08) 16 (-5-31) 4.7 (-1.7-10.6)	(0.65-0.82) 33 (22-42) 9.6 (6.4-12.2)	(0.73- 1.09) 6 (-6-17) 1.7 (-1.7-5.0) 56	(0.78- 0.96) 8 (2-13) 2.3 (0.5-3.8) 51	(0.73- 0.97) 13 (2-22) 3.8 (0.6-6.4)	(0.70-1.05) 37 (-13-80) 10.8 (-3.8-23.3)	(0.77-0.96) 16 (5-27) 4.5 (1.5-7.9)	(0.58-0.81) 20 (12-27) 5.8 (3.5-7.9)
Relative risk reduction from trial results Estimated events revented in CGPS Proportion of all events prevented, % Stroke prevention Kaplan-Meier estimated 5 year events Relative risk reduction		0.87 (0.80-0.95) 18 (7-28) 5.2 (2.0-8.2)	(0.69-0.95) 22 (6-37) 6.4 (1.7-10.8)	(0.70- 1.09) 8 (-5-18) 2.3 (-1.6 – 5.2)	(0.73- 1.0) 9 (0-17) 2.6 (0-5.0)	(0.51-1.08) 16 (-5-31) 4.7 (-1.7-10.6)	9.6 (6.4-12.2)	(0.73- 1.09) 6 (-6-17) 1.7 (-1.7-5.0)	(0.78- 0.96) 8 (2-13) 2.3 (0.5-3.8)	(0.73- 0.97) 13 (2-22) 3.8 (0.6-6.4)	(0.70-1.05) 37 (-13-80) 10.8 (-3.8-23.3) 253	(0.77-0.96) 16 (5-27) 4.5 (1.5-7.9)	(0.58-0.81) 20 (12-27) 5.8 (3.5-7.9)
Relative risk reduction from trial results Estimated events Estimated events prevented in CGPS Proportion of all events prevented, % Stroke prevention Kaplan-Meier estimated 5 year events Relative risk		0.87 (0.80-0.95) 18 (7-28) 5.2 (2.0-8.2)	(0.69-0.95) 22 (6-37) 6.4 (1.7-10.8)	(0.70- 1.09) 8 (-5-18) 2.3 (-1.6 - 5.2) 56	(0.73- 1.0) 9 (0-17) 2.6 (0-5.0) 55	(0.51-1.08) 16 (-5-31) 4.7 (-1.7-10.6)	9.6 (6.4-12.2)	(0.73- 1.09) 6 (-6-17) 1.7 (-1.7-5.0) 56	(0.78- 0.96) 8 (2-13) 2.3 (0.5-3.8) 51	(0.73- 0.97) 13 (2-22) 3.8 (0.6-6.4) 74	(0.70-1.05) 37 (-13-80) 10.8 (-3.8-23.3) 253	(0.77-0.96) 16 (5-27) 4.5 (1.5-7.9)	(0.58-0.81) 20 (12-27) 5.8 (3.5-7.9)

Estimated		17	26	-10	24	21	20	7	6	5	106	27	11	
events		(0-32)	(2-45)	(-31-6)	(-10-48)	(1-34)	(5-32)	(-5-17)	(-11-18)	(-15-21)	(61-142)	(7-43)	(2-18)	
prevented		(0-32)	(2-45)	(-31-0)	(-10-46)	(1-34)	(5-32)	(-5-17)	(-11-10)	(-15-21)	(61-142)	(7-43)	(2-16)	
in CGPS														
iii CGF3	l													
		1												
Proportion		5.3	8.1	-3.1	7.5	6.5	6.2	2.2	1.9	1.6	33.0	8.4	3.4	
of all		(0-10.0)	(0.6-14.0)	(-9.7-	(-3.1-	(0.3-10.6)	(1.6-10.0)	(-1.6-5.3)	(-3.4-5.6)	(-4.7-6.5)	(19.0-44.3)	(2.2-13.4)	(0.6-5.6)	
events				1.9)	15.0)									
prevented,														
%														
All-cause														
mortality														
prevention														
Kaplan-Meier	727	302	315	139	149	147	234	139	143	201	674	243	118	
estimated 5 year														
events														
Relative		0.99	0.89	0.68	0.85	1.05	1.04	0.87	0.97	0.94	0.82	0.85	0.87	
risk		(0.91-1.07)	(0.76-	(0.57-	(0.74-	(0.74-1.50)	(0.91-	(0.74-	(0.89-	(0.83-	(0.71-	(0.73-0.98)	(0.74-1.02)	
reduction		(1.04)	0.82)	0.97)	(0.74 1.50)	1.19)	1.01)	1.05)	1.06)	.0.96)	(0.75 0.50)	, ,	
from trial			,	*****	0.57)		1.15)	/		,	,			
results														
Tosaits														
Estimated		3	35	44	22	-7	-9	22	4	12	121	36	15	
events		(-21-27)	(-13-76)	(25-60)	(4-39)	(-74-38)	(-44-21)	(-1-36)	(-7-26)	(-12-34)	(27-195)	(5-66)	(-2-31)	
prevented		(-21-2/)	(-13-76)	(25-60)	(4-39)	(-74-38)	(-44-21)	(-1=30)	(-7-20)	(-12=34)	(27-193)	(3-66)	(-2-31)	
in CGPS														
iii CGPS														
Proportion		0.4	4.8	6.1	3.0	-1.0	-1.2	3.0	0.6	1.7	16.6	5.0	2.1	
of all		(-2.9-3.7)	(-1.8-10.5)	(3.4 –	(0.6-5.4)	(-10.2-5.2)	(-6.1-2.9)	(-0.1-5.0)	(-1.0-3.6)	(-1.7-4.7)	(4.0-26.8)	(0.7-9.1)	(-0.2-4.3)	
events		(=))	8.3)	()	()	(0.1 2.3)	(2)	()		()	((/	
prevented,				0.5)										
%														
70														

MI: Myocardial infarction. CGPS: Copenhagen general Population Study.

*Major cardiovascular events = myocardial infarction, stroke and cardiovascular death. For REVEAL, the composite endpoint was coronary death and myocardial infarction.

 $eTable\ 4.\ Estimated\ major\ cardiov a scular\ events,\ myocardial\ infarctions,\ strokes\ and\ deaths\ prevented\ in\ 5$

years among individuals with prior myocardial infarction by each trial.

							Ever-4-	ial all=21.1	man4!-!	ta			
							Events in tr	ial eligible	participan	ts			
Potential	All	IMPROVE-	PEGASUS	EMPA-	LEADER	SUSTAIN-	FOURIER	CANVAS	REVEAL	CANTOS	COMPASS	ODYSSEY	REDUCE-
Outcomes	All	IT IT	TEGASUS	REG	LEADER	6	FOURIER	CAITVAS	REVEAL	CANTOS	COMI ASS	ODISSEI	IT IT
	1												
Major													
cardiovascular event													
prevention*													
Kaplan-Meier	414	374	350	73	77	77	290	74	81*	230	344	305	76
estimated 5 year events													
Relative		0.90	0.84	0.86	0.87	0.74	0.80	0.86	0.89	0.88	0.76	0.85	0.74
risk reduction		(0.84-0.96)	(0.74-0.95)	(0.74-	(0.78- 0.97)	(0.58-0.95)	(0.73- 0.88)	(0.72- 0.97)	(0.81- 0.97)	(0.79- 0.97)	(0.66-0.86)	(0.78-0.93)	(0.68-0.83)
from trial				,	5.57)		0.00)	0.57)	5.57)	0.51)			
results													
Port of		27		40	40			40		20	02	40	20
Estimated events		37 (15-60)	56 (17-91)	10 (1-19)	10 (2-17)	20 (4-32)	58 (35-78)	10 (2-21)	9 (2-15)	28 (7-48)	83 (48-117)	46 (21-67)	20 (13-24)
prevented		(13-00)	(17-51)	(1-13)	(E-1/)	(4.32)	(35-76)	(E-E1)	(2-13)	(7-40)	(-0-11/)	(21-0/)	(13-24)
in CGPS			1										
Proportion		8.9	13.5	2.4	2.4	4.8	14.0	2.4	2.2	6.8	20.0	11.1	4.8
of all		(3.6-14.5)	(4.1-22.0)	(0.2-	(0.5-4.1)	(1.0-7.7)	(8.5-18.8)	(0.5-5.1)	(0.5-3.6)	(1.7-	(11.6-28.3)	(5.1-16.2)	(3.1-5.8)
events				4.6)						11.6)			
prevented,													
%													
MI prevention													
Kaplan-Meier	157	139	118	25	28	28	114	25	44	81	117	117	34
estimated 5 year events													
events													
Relative		0.87	0.81	0.87	0.86	0.74	0.73	0.89	0.87	0.84	0.86	0.86	0.69
risk		(0.80-0.95)	(0.69-0.95)	(0.70-	(0.73-1.0)	(0.51-1.08)	(0.65-0.82)	(0.73-	(0.78-	(0.73-	(0.70-1.05)	(0.77-0.96)	(0.58-0.81)
reduction from trial				1.09)				1.09)	0.96)	0.97)			
results													
Estimated events		18 (7-28)	22 (6-37)	6 (-2-7)	4 (0-8)	7 (-2-14)	31 (21-40)	3 (-2-7)	6 (-2-10)	13 (2-22)	16 (-6-35)	16 (5-27)	11 (6-14)
prevented		(7-28)	(0-37)	(-2-7)	(0-8)	(-2-14)	(21-40)	(-2-7)	(-2-10)	(2-22)	(-0-33)	(3-27)	(0-14)
in CGPS													
Proportion		11.5	14.0	3.8	2.5	4.5	19.7	1.9	3.8	8.3	10.2	10.2	7.0
of all		(4.5-17.8)	(3.8-23.6)	(-1.3-	(0.0-5.1)	(-1.2-8.9)	(13.4-25.5)	(-1.3-4.5)	(1.3-6.4)	(1.3-14.0)	(-3.8-22.3)	(3.2-17.2)	(3.8-8.9)
events				4.5)						·			
prevented,													
% Stroke			1				-						
prevention													
Kaplan-Meier	128	118	104	22	22	22	83	22	35	74	100	101	22
estimated 5 year													
events													
Relative	-	0.86	0.75	1.18	0.86	0.61	0.79	0.87	0.89	0.93	0.58	0.73	0.72
risk		(0.73-1.00)	(0.57-0.98)	(0.89-	(0.71-	(0.38-0.99)	(0.66-0.95)	(0.69-	(0.65-	(0.72-	(0.44-0.76)	(0.57-0.93)	(0.55-0.93)
reduction				1.56)	1.06)	,		1.09)	1.22)	1.20)	*		
from trial results													
resuns													
Estimated		17	26	-4	3	9	17	3	4	5	42	27	6
		(0-32)	(2-45)	(-12-2)	(-1-5)	(1-14)	(4-28)	(-2-7)	(-8-12)	(-15-21)	(24-56)	(7-43)	(2-10)

prevented														
in CGPS														
		•		l l		1								
Proportion		13.3	20.3	-3.1	2.3	7.0	13.3	2.3	3.1	3.9	32.8	21.1	4.7	l
of all		(0-25)	(1.6-35.2)	(-9.4-	(-0.8-3.9)	(0.8-10.9)	(3.1-21.1)	(-1.6-5.5)	(-6.3-9.4)	(-11.7-	(18.8-43.8)	(5.5-33.6)	(1.6-7.8)	
events		(/	, , , ,	1.6)	(,	(,		,	,	16.4)	,	(**************************************		
prevented,				,										
%														
70														
All-cause														
mortality														
prevention														
Kaplan-Meier	336	302	315	60	63	62	213	60	105	201	313	243	61	
estimated 5 year														
events														
Relative		0.99	0.89	0.68	0.85	1.05	1.04	0.87	0.97	0.94	0.82	0.85	0.87	
risk		(0.91-1.07)	(0.76-	(0.57-	(0.74-	(0.74-1.50)	(0.91-1.19)	(0.74-	(0.89-	(0.83-	(0.71-	(0.73-0.98)	(0.74-1.02)	
reduction			1.04)	0.82)	0.97)	, ,	,	1.01)	1.05)	1.06)	.0.96)			
from trial					/					·				
results														
Estimated		3	35	19	9	-3	-9	8	3	12	56	36	8	
events								(-1-16)	(-5-12)	(-12-34)	(13-91)		(-1-16)	
		(-21-27)	(-13-76)	(11-24)	(2-16)	(-31-16)	(-40-19)	(-1-10)	(-3-12)	(-12-34)	(13-91)	(5-66)	(-1-10)	
prevented														
in CGPS														
		0.0	10.4		2.7	-0.9		2.4	0.0	2.6	14.7	10.7	2.4	
Proportion		0.9	10.4	5.7			-2.7	2.4	0.9	3.6	16.7	10.7	2.4	
of all		(-6.3-8.0)	(-3.9-22.6)	(3.3 –	(0.6-4.8)	(-9.2-4.8)	(-11.9-5.7)	(-0.3-4.8)	(-1.5-3.6)	(-3.6-	(3.9-27.1)	(1.4-19.6)	(-0.3-4.8)	
events				7.1)						10.1)				
prevented,														
%														

MI: Myocardial infarction. CGPS: Copenhagen general Population Study.

*Major cardiovascular events = myocardial infarction, stroke and cardiovascular death. For REVEAL, the composite endpoint was coronary death and myocardial infarction.

eTable 5. Baseline characteristics of patients with ischemic heart disease or prior myocardial infarction from the Copenhagen General Population Study and of those eligible for new medication to prevent atherosclerotic cardiovascular disease according to inclusion and exclusion criteria used in ten different trials (strictly following ASCVD time-criteria used in clinical trials)

						Eligibili	y accordir	ng to trial	criteria				
			•										
Characteristics	All	IMPROVE -IT	PEGASU S	EMPA -REG	LEADE R	SUSTAIN- 6	FOURIE R	CANVA S	REVEA L	CANTO S	COMPAS S	ODYSSE Y	REDUCE -IT
Ischemic heart disease													
Individuals, n	6292	1	253	806	809	802	1511	818	842	922	4176	80	977
Gender, male, n (%)	3861 (61)		175 (69)	554 (70)	551 (68)	546 (68)	1126 (75)	562 (69)	687 (82)	637 (69)	2682 (63)	52 (65)	743 (76)
Age, years	69 (62- 76)	,	73 (69-79)	71 (65- 77)	71 (65- 77)	71 (65-77)	72 (66-78)	71 (65- 77)	72 (66- 78)	72 (65- 79)	74 (69-79)	68 (61-77)	70 (64-76)
Blood pressure, mmHg Systolic,	144 (130 - 158)	-	143 (132- 160)	144 (130- 158)	144 (130- 158)	144 (130- 158)	142 (130- 157)	144 (130- 158)	140 (126- 154)	143 (130- 159)	145 (132- 160)	140 (128- 151)	142 (130- 157)
Diastolic,	82 (75- 90)	-	80 (72-88)	80 (71- 86)	80 (71- 86)	80 (71-86)	80 (72-88)	80 (71- 86)	79 (71- 85)	80 (72- 89)	80 (73-89)	79 (70-87)	80 (73-88)
Cholesterol, mg/dL													
Total cholesterol	190 (163 - 224)	-	166 (143- 193)	166 (143- 197)	166 (143- 197)	166 (143- 197)	166 (147- 189)	166 (143- 197)	139 (128- 147)	178 (151- 213)	186 (159- 217)	190 (163- 217))	166 (151- 182)
HDL cholesterol	55 (44- 69)	-	54 (44-65)	48 (39- 61)	48 (39- 61)	47 (39-61)	51 (41-64)	48 (39- 61)	46 (38- 56)	49 (40- 63)	56 (44-70)	48 (42-60)	45 (37-56)
LDL cholesterol	101 (76- 130)	-	81 (66- 104)	77 (60- 104)	77 (60- 104)	77 (60-104)	81 (66- 101)	77 (61- 104)	62 (50- 73)	93 (70- 120)	93 (72- 124)	106 (85- 124)	74 (62-85)
Triglycerides	137 (96- 202)	-	134 (90- 188)	168 (112- 251)	169 (112- 251)	169 (112- 251)	144 (100- 212)	168 (112- 251)	124 (89- 180)	153 (112- 224)	136 (96- 198)	147 (112- 209)	210 (175- 274)
C-reactive protein, mg/L	1.6 (1.0- 2.9)	-	1.6 (1.0- 3.2)	1.8 (1.1- 3.5)	1.8 (1.1- 3.7)	1.8 (1.1- 3.6)	1.6 (1.0- 2.9)	1.8 (1.1- 3.6)	1.5 (1.0- 3.1)	3.8 (2.6- 5.9)	1.7 (1.1- 3.2)	1.6 (1.1- 3.6)	1.6 (1.1- 2.9)
Current smokers, n (%)	984 (16)		34 (13)	115 (14)	113 (14)	114 (14)	289 (19)	118 (14)	126 (15)	206 (22)	593 (14)	11 (14)	134 (14)
Diabetes, n (%)	830 (13)		60 (24)	806 (100)	809 (100)	802 (100)	309 (20)	818 (100)	316 (38)	168 (18)	747 (17)	9 (11)	275 (28)
Statin use, n (%)	3535 (56)	-	202 (80)	637 (79)	645 (80)	638 (80)	1511 (100)	648 (79)	783 (93)	629 (68)	2633 (62)	55 (69)	977 (100)
Myocardial infarction													
Individuals, n	2277	1	253	330	334	331	1408	334	626	922	1608	80	474
Gender, male, n (%)	1637 (72)	-	175 (69)	254 (77)	255 (76)	252 (76)	1142 (75)	257 (77)	526 (84)	637 (69)	1189 (73)	52 (65)	387 (82)
Age, years	70 (63- 77)	-	73 (69-79)	71 (66- 77)	71 (66- 77)	71 (66-77)	71 (65-77)	71 (66- 76)	72 (66- 78)	72 (65- 79)	74 (69-79)	68 (61-77)	70 (63-76)
Blood pressure, mmHg Systolic,	142 (130 - 157)	-	143 (132- 160)	144 (130- 156)	144 (130- 156)	144 (130- 156)	142 (130- 156)	144 (130- 156)	140 (125- 152)	143 (130- 159)	144 (130- 160)	140 (128- 151)	141 (130- 156)
Diastolic,	80 (73- 89)	-	80 (72-88)	79 (70- 86)	79 (70- 86)	79 (70-86)	80 (72-88)	79 (70- 86)	79 (70- 85)	80 (72- 89)	80 (72-88)	79 (70-87)	80 (72-88)
Cholesterol, mg/dL													
Total cholesterol	174 (151 - 209)	-	166 (143- 193)	163 (143- 190)	163 (139- 190)	163 (139- 190)	166 (147- 190)	163 (143- 190)	139 (128- 147)	178 (151- 213)	174 (151- 205)	190 (163- 217))	163 (147- 178)
HDL cholesterol	52 (42- 65)	-	54 (44-65)	47 (38- 59)	46 (38- 59)	46 (38-59)	51 (41-63)	46 (38- 59)	46 (38- 59)	49 (40- 63)	53 (42-66)	48 (42-60)	44 (36-54)
LDL cholesterol	89 (70- 116)	-	81 (66- 104)	76 (58- 102)	75 (58- 101)	76 (58-101)	81 (66- 101)	76 (58- 102)	63 (51- 73)	93 (70- 120)	85 (67- 112)	106 (85- 124)	74 (62-85)
Triglycerides	140 (97- 206)	-	140 (97- 206)	174 (118- 248)	174 (118- 248)	174 (118- 249)	144 (101- 213)	174 (118- 249)	121 (89- 174)	153 (112- 224)	139 (97- 204)	147 (112- 209)	214 (177- 277)
C-reactive protein, mg/L	1.6 (1.0- 3.0)	-	1.6 (1.0- 3.2)	1.9 (1.1- 3.9)	1.9 (1.1- 3.9)	1.9 (1.1- 3.9)	1.5 (1.0- 2.8)	1.9 (1.1- 3.9)	1.5 (1.0- 3.1)	3.8 (2.6- 5.9)	1.7 (1.1- 3.3)	1.6 (1.1- 3.6)	1.7 (1.1- 3.0)
Current smokers, n (%)	412 (18)	-	34 (13)	63 (19)	62 (19)	62 (19)	278 (20)	64 (19)	107 (17)	206 (22)	276 (17)	11 (14)	80 (17)

Diabetes, n (%)	338	-	60 (24)	330	334 (100)	331 (100)	284 (19)	334 (100)	133 (21)	168 (18)	308 (21)	9 (11)	119 (25)
Satin use, n (%)	(15)	-	202 (80)	(100)	287 (86)	284 (86)	1517 (100)	286 (86)	589 (94)	629 (68)	1228 (75)	55 (69)	474 (100)
	1671			282									
	(74)			(86)									

Baseline characteristics are presented as proportions for categorical variables and as medians (interquartile range) for continuous variables.

HDL=high-density lipoprotein; LDL=low-density lipoprotein;

Only 1 individual met inclusion criteria in IMPROVE-IT when ASCVD time-criteria was followed (acute coronary syndrome within 10 days).

 $eTable\ 6.\ Event\ rates\ for\ myocardial\ infarction,\ stroke\ and\ all\text{-}cause\ mortality\ per\ 1000\ person-years\ among\ trial-eligible\ individuals\ and\ in\ the\ total\ Copenhagen\ General\ Population\ Study\ cohort\ (strictly\ following\ ASCVD\ time-criteria\ used\ in\ clinical\ trials).$

Outcome	All	PEGASUS	EMPA- REG	LEADER	SUSTAIN- 6	FOURIER	CANVAS	REVEAL	CANTOS	COMPASS	ODYSSEY	REDUCE-IT
Ischemic heart disease												
Major cardiovascular events*	31.5 (29.8-33.4)	37.4 (28.9-48.0)	45.2 (39.4-51.8)	47.2 (41.2-54.0)	47.4 (41.4-54.2)	44.8 (40.3-49.7)	44.7 (39.1-51.3)	42.7 (37.0-49.4)	54.8 (48.6-61.8)	41.8 (39.3-44.5)	34.9 (22.0-55.4)	35.0 (30.4-40.2)
MI	10.6	12.1	15.2	15.4	15.6	13.5	15.2	12.9	15.2	12.2	11.1	13.0
	(9.7-11.6)	(8.1-18.0)	(12.3-18.8)	(12.5-19.0)	(12.6-19.2)	(11.3-16.0)	(12.3-18.7)	(10.2-16.4)	(12.4-18.5)	(11.0-13.5)	(5.3-23.3)	(10.5-16.1)
Stroke	9.8	9.1	13.2	13.1	13.3	11.0	13.2	11.9	12.8	11.9	7.5	9.5
	(8.9-10.7)	(5.8-14.2)	(10.6-16.5)	(10.5-16.4)	(10.6-16.6)	(9.2-13.1)	(10.6-16.4)	(9.4-15.1)	(10.4-15.6)	(10.8-13.2)	(3.1-18.1)	(7.5-12.0)
All-cause	32.0	43.9	47.4	50.0	50.0	44.2	46.9	47.6	57.1	45.9	40.1	35.7
mortality	(30.3-33.7)	(35.4-54.4)	(41.9-53.5)	(44.4-53.5)	(44.4-56.4)	(40.3-48.4)	(41.6-53.0)	(42.2-53.8)	(51.5-63.2)	(43.4-48.5)	(26.9-59.9)	(31.5-40.4)
Myocardial infarction												
Major cardiovascular events*	39.9 (36.5-43.5)	37.3 (28.9-48.0)	51.0 (41.5-62.7)	52.3 (42.6-64.1)	52.2 (42.5-64.1)	44.1 (39.5-49.2)	50.8 (41.3-62.4)	41.5 (34.9-49.3)	54.8 (48.6-61.8)	49.9 (45.3-55.0)	34.9 (22.0-55.4)	36.5 (29.7-44.7)
MI	12.5	12.1	14.8	15.1	15.3	13.4	15.0	12.0	15.2	13.4	11.1	12.7
	(10.8-14.4)	(8.1-18.0)	(10.5-20.1)	(10.8-21.2)	(10.9-21.4)	(11.2-16.0)	(10.7-21.0)	(9.0-16.0)	(12.4-18.5)	(11.4-15.8)	(5.3-23.3)	(9.2-17.5)
Stroke	9.8	9.1	11.8	11.7	11.8	10.3	11.7	10.1	12.8	10.9	7.5	9.6
	(8.4-11.3)	(5.8-14.2)	(8.3-16.8)	(8.2-16.8)	(8.3-16.8)	(8.5-12.4)	(8.2-16.6)	(7.5-13.5)	(10.4-15.6)	(9.2-12.9)	(3.1-18.1)	(6.9-13.4)
All-cause	41.3	43.9	54.4	55.6	55.6	43.9	54.1	48.0	57.1	56.6	40.1	40.0
mortality	(38.3-44.6)	(35.4-54.4)	(45.7-64.8)	(46.8-66.2)	(46.7-66.1)	(39.9-48.3)	(45.4-64.4)	(41.7-55.2)	(51.5-63.2)	(52.3-61.3)	(26.9-59.9)	(33.8-47.4)

Event rates with 95% confidence interval. MI: Myocardial infarction. Major cardiovascular events = myocardial infarction, stroke and cardiovascular death.

Only 1 individual met inclusion criteria in IMPROVE-IT when ASCVD time-criteria was followed (acute coronary syndrome within 10 days), and is therefore not shown in this table.

eTable 7. Estimated major cardiovascular events, myocardial infarctions, strokes and deaths prevented in 5 years among individuals with ischemic heart disease by each trial (strictly following ASCVD time-criteria used in clinical trials).

chemic hear			(-							1			
					E	vents in tria							
						par	ticipants						
Potential	All	PEGASUS	EMPA-	LEADER	SUSTAIN-6	FOURIER	CANVAS	REVEAL	CANTOS	COMPASS	ODYSSEY	REDUCE-	
Outcomes			REG									IT	•
Major													
cardiovascular event													
prevention*													
Kaplan-Meier	877	45	160	168	168	297	161	105*	230	725	14	141	
estimated 5 year events													
Relative		0.84	0.86	0.87	0.74	0.80	0.86	0.89	0.88	0.76	0.85	0.74	
risk reduction		(0.74-0.95)	(0.74- 0.99)	(0.78- 0.97)	(0.58-0.95)	(0.73- 0.88)	(0.72- 0.97)	(0.81- 0.97)	(0.79- 0.97)	(0.66-0.86)	(0.78-0.93)	(0.68-0.83)	
from trial				3.37)		0.00)	3.371	3.37)	0.57)				
results													
Entimentad	<u> </u>	-	22	22		F0	22	12	20	174	_	27	
Estimated events		7 (2-12)	22 (3-42)	22 (5-37)	44 (8-71)	59 (36-80)	23 (4-45)	12 (3-20)	28 (7-48)	174 (101-246)	2 (1-3)	37 (24-45)	
prevented		,,		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	()	,,	,,	,/		, ,		`/	
in CGPS													
Proportion	-	0.8	2.5	2.5	5.0	6.7	2.6	1.4	3.2	19.8	0.2	4.2	
of all		(0.2-1.4)	(0.3-	(0.6-4.2)	(0.9-8.1)	(4.1-9.1)	(0.5-5.1)	(0.3-2.3)	(0.8-5.5)	(11.5-28.0)	(0.1-0.3)	(2.7-5.1)	
events			4.8)										
prevented, %													
MI prevention													
Kaplan-Meier	343	16	61	63	63	111	62	60	81	267	8	64	
estimated 5 year													
events													
Relative		0.81	0.87	0.86	0.74	0.73	0.89	0.87	0.84	0.86	0.86	0.69	
risk		(0.69-	(0.70-	(0.73-	(0.51-1.08)	(0.65-0.82)	(0.73-	(0.78-	(0.73-	(0.70-1.05)	(0.77-0.96)	(0.58-0.81)	
reduction from trial		0.95)	1.09)	1.0)			1.09)	0.96)	0.97)				
results													
				1		,	ı				,		
Estimated events		3	8	9	16	30	6	8 (2.42)	13	37	1 (0.2)	20	
prevented		(1-5)	(-5-18)	(0-17)	(-5-31)	(20-39)	(-6-17)	(2-13)	(2-22)	(-13-80)	(0-2)	(12-27)	
in CGPS													
Proportion		0.9	2.3	2.6	4.7	8.7	1.7	2.3	3.8	10.8	0.3	5.9	
Proportion of all		(0.3-1.5)	2.3 (-1.6 –	2.6 (0-5.0)	(-1.7-10.6)	(6.4-11.4)	1.7 (-1.7-5.0)	(0.5-3.8)	(0.6-6.4)	(-3.8-23.3)	(0.1-0.6)	5.8 (3.5-7.9)	
events			5.2)										
prevented, %													
Stroke	1											 	
prevention													
Kaplan-Meier	321	16	56	55	55	91	56	51	74	253	3	39	
estimated 5 year events													
						<u></u>		<u></u>					
		0.75	1.18	0.86	0.61	0.79	0.87	0.89	0.93	0.58	0.73	0.72	_
Relative	1	(0.57-0.98)	(0.89-	(0.71-	(0.38-0.99)	(0.66-0.95)	(0.69- 1.09)	(0.65- 1.22)	(0.72- 1.20)	(0.44-0.76)	(0.57-0.73)	(0.55-0.93)	
										•			
risk reduction			1.56)	1.06)			1.03)	,					
risk reduction			1.56)	1.06)			1.03)	,					
risk reduction from trial		4	-10	24	21	19	7	6	5	106	1	11	

prevented													
in CGPS													
												ı	
Proportion		1.2	-3.1	7.5	6.5	5.9	2.2	1.9	1.6	33.0	0.3	3.4	
of all		(0.3-1.9)	(-9.7-	(-3.1-	(0.3-10.6)	(1.6-9.7)	(-1.6-5.3)	(-3.4-5.6)	(-4.7-6.5)	(19.0-44.3)	(0.3-0.3)	(0.6-5.6)	
events		, ,	1.9)	15.0)	, ,	, ,	,	, ,		,	, ,		
prevented,			,										
%													
,-													
All-cause													
mortality													
prevention													
Province													
Kaplan-Meier	727	35	139	149	147	229	139	143	201	674	11	118	
estimated 5 year													
events													
Relative		0.89	0.68	0.85	1.05	1.04	0.87	0.97	0.94	0.82	0.85	0.87	
risk		(0.76-1.04)	(0.57-	(0.74-	(0.74-1.50)	(0.91-	(0.74-	(0.89-	(0.83-	(0.71-	(0.73-0.98)	(0.74-1.02)	
reduction			0.82)	0.97)		1.19)	1.01)	1.05)	1.06)	.0.96)			
from trial				,		,							
results													
Estimated		4	44	22	-7	-9	22	4	12	121	2	15	
events		(-1-8)	(25-60)	(4-39)	(-74-38)	(-44-21)	(-1-36)	(-7-26)	(-12-34)	(27-195)	(1-3)	(-2-31)	
prevented		(-1-0)	(23.00)	(4-33)	(-74-30)	(77 21)	(/	(. ==/	(/	(=: -,-)	(1-5)	(,	
in CGPS													
co. b													
Proportion		0.6	6.1	3.0	-1.0	-1.2	3.0	0.6	1.7	16.6	0.3	2.1	
of all		(-0.1-1.1)	(3.4 -	(0.6-5.4)	(-10.2-5.2)	(-6.1-2.9)	(-0.1-5.0)	(-1.0-3.6)	(-1.7-4.7)	(4.0-26.8)	(0.0-0.4)	(-0.2-4.3)	
events			8.3)										
prevented,													
%													
1	1								ı			1	I

MI: Myocardial infarction. CGPS: Copenhagen General Population Study.
Only 1 individual met inclusion criteria in IMPROVE-IT when ASCVD time-criteria was followed (acute coronary syndrome within 10 days), and is therefore not shown in this table.

^{*}Major cardiovascular events = myocardial infarction, stroke and cardiovascular death. For REVEAL, the composite endpoint was coronary death and myocardial infarction.

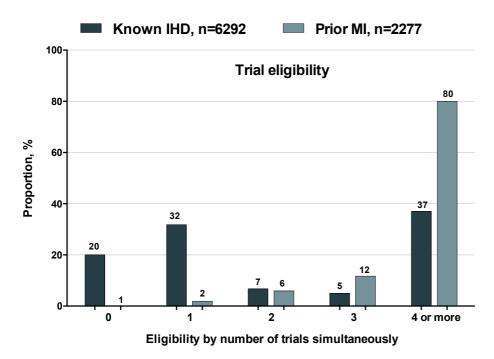
eTable 8. Estimated major cardiovascular events, myocardial infarctions, strokes and deaths prevented in 5 years among individuals with prior myocardial infarction by each trial (strictly following ASCVD time-criteria used in clinical trials). Events in trial eligible participants Potential PEGASUS EMPA-LEADER FOURIER CANVAS REVEAL CANTOS COMPASS ODYSSEY REDUCE-Major cardiovascular event prevention Kaplan-Meier 45 274 74 81* 230 344 14 estimated 5 year (0.74-0.95) (0.74risk (0.78-0.93) (0.68-0.83) (0.78 (0.58-0.95) (0.73-(0.72 (0.81-(0.79-(0.66-0.86) reduction 0.99) 0.97) 0.88) 0.97) 0.97) 0.97) from trial results Estimated 10 10 83 events (2-12) (1-19) (2-17) (4-32) (33-74) (2-21) (2-15) (7-48) (48-117) (1-3) (13-24) prevented in CGPS Proportion (0.5-2.9) (0.2-(0.5-4.1) (1.0-7.7) (7.8-17.9) (0.5-5.1) (0.5-3.6) (1.7-(11.6-28.3) (0.2-0.7) (3.1-5.8) of all 4.6) 11.6) events prevented, MI prevention estimated 5 year events Relative 0.81 0.87 0.86 0.74 0.73 0.89 0.87 0.84 0.86 0.86 0.69 risk (0.69-0.95) (0.70-(0.73-1.0) (0.51-1.08) (0.65-0.82) (0.73-(0.78-(0.73-(0.70-1.05) (0.77-0.96) (0.58-0.81) reduction 1.09) 0.96) 1.09) 0.97) results Estimated 16 events (1-5) (-2-7) (0-8) (-2-14) (19-37) (-2-7) (-2-10) (2-22) (-6-35) (0-2) (6-14) prevented in CGPS of all (0.6-3.2) (-1.3-(0.0-5.1) (-1.2-8.9) (12.1-23.6) (-1.3-4.5) (1.3-6.4) (1.3-14.0) (-3.8-22.3) (0.1-1.3) (3.8-8.9) 4.5) events prevented. Stroke Kaplan-Meier 22 22 22 22 estimated 5 year events 0.93 0.58 0.72 0.75 1.18 0.86 0.61 0.79 0.87 0.89 0.73 risk (0.57-(0.89-(0.71-(0.38-0.99) (0.66-0.95) (0.69-(0.65-(0.72-(0.44-0.76) (0.57-0.73) (0.55-0.93) reduction 0.98) from trial results

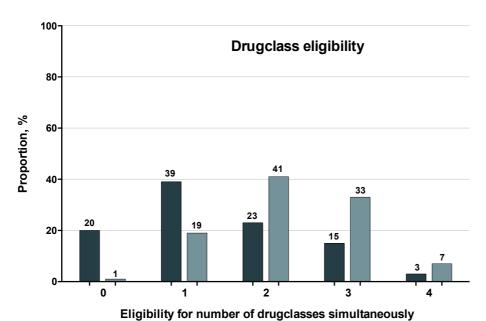
Estimated		4	-4	3	9	17	3	4	5	42	1	6	
events		(1-6)	(-12-2)	(-1-5)	(1-14)	(4-27)	(-2-7)	(-8-12)	(-15-21)	(24-56)	(1-1)	(2-10)	
prevented		, -,	, ,	,	, ,	, ,	, ,	, , ,	' '	,,	, ,	, ,,	
in CGPS													
													1
Proportion	1	3.1	-3.1	2.3	7.0	13.3	2.3	3.1	3.9	32.8	0.8	4.7	
of all		(0.8-4.7)	(-9.4-	(-0.8-3.9)	(0.8-10.9)	(3.1-21.1)	(-1.6-5.5)	(-6.3-9.4)	(-11.7-	(18.8-43.8)	(0.8-0.8)	(1.6-7.8)	
		(0.8-4.7)	`	(-0.8-3.9)	(0.8-10.9)	(3.1-21.1)	(-1.0-5.5)	(-0.3-9.4)	,	(18.8-45.8)	(0.8-0.8)	(1.6-7.8)	
events			1.6)						16.4)				
prevented,													
%													
All-cause													
mortality													
prevention													
Kaplan-Meier	336	35	60	63	62	209	60	105	201	313	1	61	
estimated 5 year													
events													
Relative		0.89	0.68	0.85	1.05	1.04	0.87	0.97	0.94	0.82	0.85	0.87	
risk		(0.76-1.04)	(0.57-	(0.74-	(0.74-1.50)	(0.91-1.19)	(0.74-	(0.89-	(0.83-	(0.71-	(0.73-0.98)	(0.74-1.02)	
reduction			0.82)	0.97)			1.01)	1.05)	1.06)	.0.96)			
from trial													
results													
Estimated		4	19	9	-3	-8	8	3	12	56	2	8	
events		(-1-8)	(11-24)	(2-16)	(-31-16)	(-34-19)	(-1-16)	(-5-12)	(-12-34)	(13-91)	(1-3)	(-1-16)	
prevented													
in CGPS													
Proportion		1.2	5.7	2.7	-0.9	-2.4	2.4	0.9	3.6	16.7	0.6	2.4	
of all		(-0.3-2.4)	(3.3 –	(0.6-4.8)	(-9.2-4.8)	(-10.1-5.7)	(-0.3-4.8)	(-1.5-3.6)	(-3.6-	(3.9-27.1)	(0.3-0.9)	(-0.3-4.8)	
events			7.1)						10.1)				
prevented,													
%													
N. 7. 11. 11. 11. 11. 11. 11. 11. 11. 11.		CCDC C		10 13	G: 1		l	l	l		l		

MI: Myocardial infarction. CGPS: Copenhagen General Population Study.

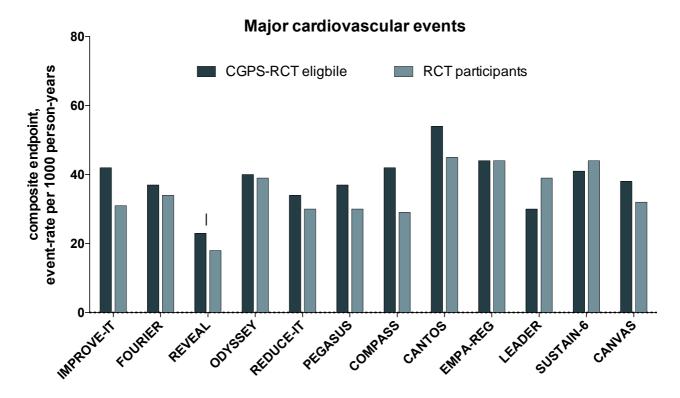
Only 1 individual met inclusion criteria in IMPROVE-IT when ASCVD time-criteria was followed (acute coronary syndrome within 10 days), and is therefore not shown in this table.

*Major cardiovascular events = myocardial infarction, stroke and cardiovascular death. For REVEAL, the composite endpoint was coronary death and myocardial infarction.

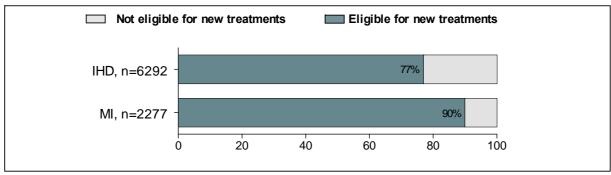


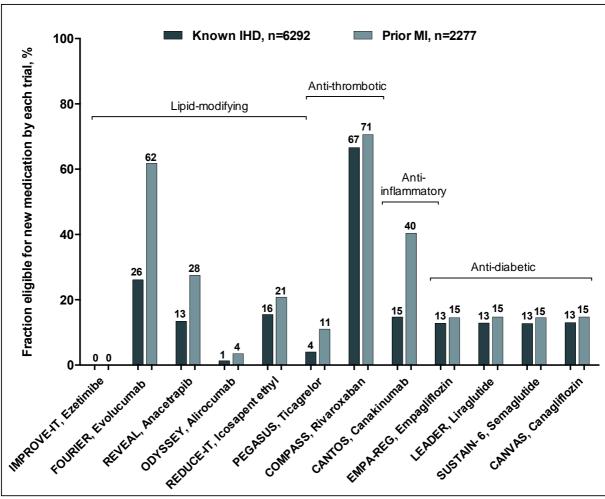


eFigure 1: Eligibility for novel therapies to prevent atherosclerotic cardiovascular disease and death by number of trials or drug classes simultaneously. Upper panel: Eligibility by number of different trials simultaneously. Lower panel: When divided into 4 potential drug classes (lipid-modifying, anti-thrombotic, anti-inflammatory, and anti-diabetic drugs), a large proportion of individuals with known IHD or previous MI met criteria for 2 or more different drug classes simultaneously. Based on patients from the Copenhagen General Population Study.

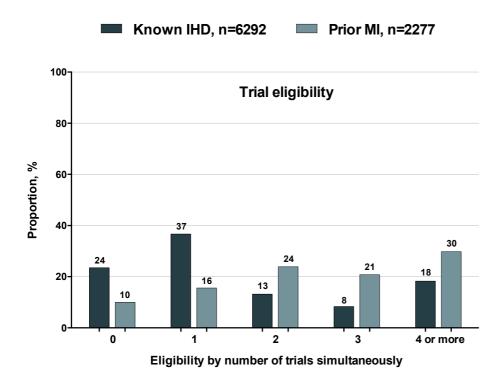


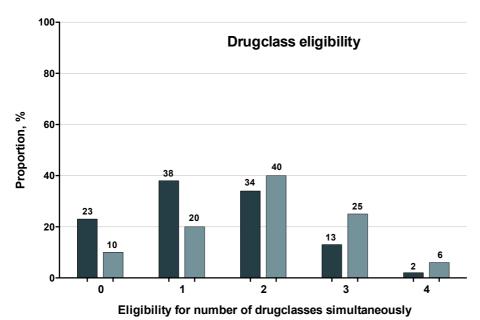
eFigure 2: Comparison of event rate per 1000 person-years of major cardiovascular events in trial-eligible Copenhagen General Population Study participant and actual patients from the randomized controlled trials. Major cardiovascular events were the composite endpoint of myocardial infarction, stroke and cardiovascular death. λ = As the REVEAL study did not use this endpoint, we compared event rates of a composite endpoint consisting of myocardial infarction and coronary death. RCT = randomized controlled trial. CGPS = Copenhagen General Population Study).



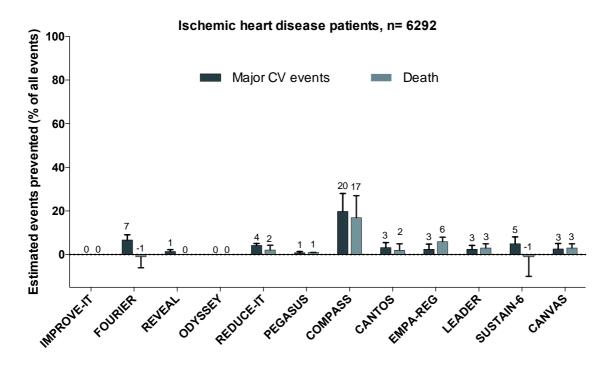


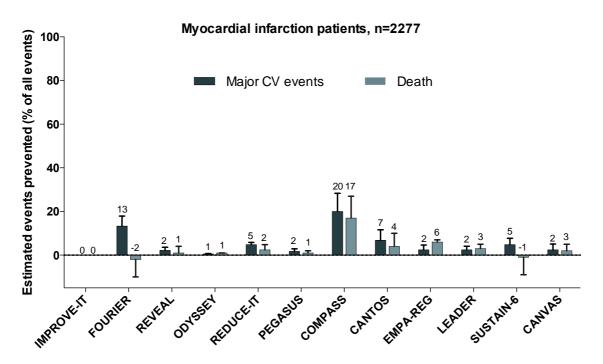
eFigure 3: Eligibility for novel therapies to prevent atherosclerotic cardiovascular disease and death in patients with known ischemic heart disease or prior myocardial infarction from a contemporary general population (strictly following ASCVD time-criteria used in clinical trials). Upper panel: Proportion eligible for at least one new secondary prevention medication. Lower panel: Eligibility by each trial individually ordered by drug classes. Only 1 individual in Copenhagen General Population Study met inclusion criteria in the IMPROVE-IT trial when ASCVD time-criteria was followed (acute coronary syndrome within 10 days). Based on patients from the Copenhagen General Population Study.



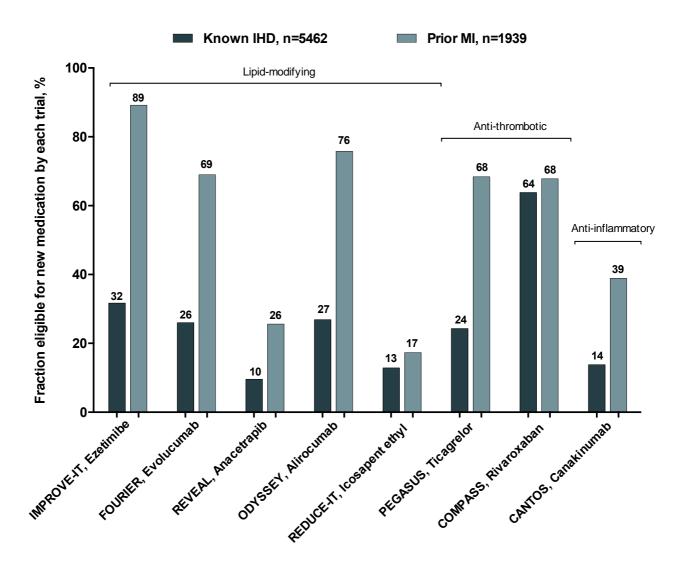


eFigure 4: Eligibility for novel therapies to prevent atherosclerotic cardiovascular disease and death by number of trials or drug classes simultaneously (strictly following ASCVD time-criteria used in clinical trials). Upper panel: Eligibility by number of different trials simultaneously. Lower panel: When divided into 4 potential drug classes (lipid-modifying, anti-thrombotic, anti-inflammatory, and anti-diabetic drugs), a large proportion of individuals with known IHD or previous MI met criteria for 2 or more different drug classes simultaneously. Based on patients from the Copenhagen General Population Study.

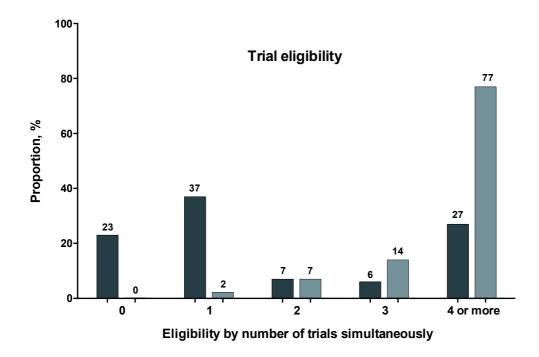


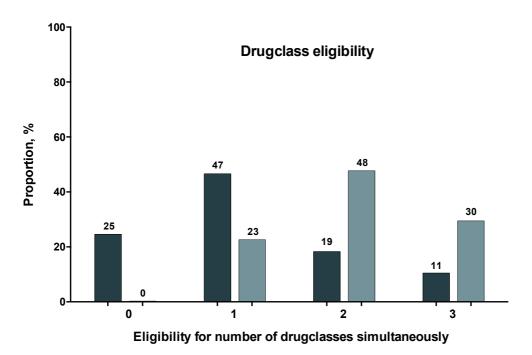


eFigure 5: Potential evidence-based prevention of major cardiovascular events, myocardial infarctions, strokes and all-cause mortality by each trial (strictly following ASCVD time-criteria used in clinical trials). Upper panel: Potential prevention of events in patients with ischemic heart disease at baseline. Lower panel: Potential prevention of events in patients with myocardial infarction at baseline. Based on patients from the Copenhagen General Population Study.



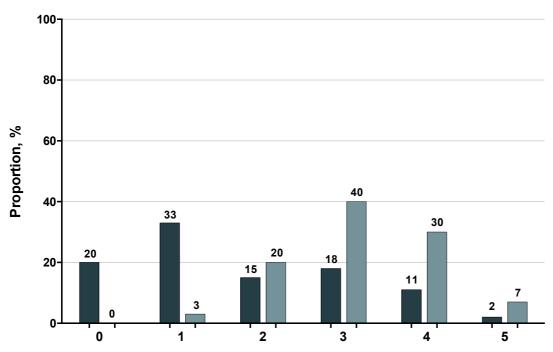
eFigure 6: Eligibility by each trial individually in individuals without diabetes ordered by drug classes.





eFigure 7: Eligibility by number of trials or drug classes simultaneously in individuals without diabetes. Upper panel: Eligibility by number of different trials simultaneously. **Lower panel:** When divided into 3 potential drug classes (lipid-modifying, anti-thrombotic, and anti-inflammatory drugs), a large proportion of non-diabetic patients with known IHD or previous MI met criteria for 2 or more different drug classes simultaneously.





Eligibility for number of drugclasses simultaneously while allowing for multiple lipid-modifying drugs

