Supplementary Table 3. Definition of the covariates

| Category                  | Description                                                                                                                                 |
|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| Diabetes mellitus         | Combination of ICD-10 codes E10–E14, O240–O244, and O249. Glucose-lowering agents: metformin, sulfonylurea, thiazolidinedione, dipeptidyl peptidase-4 inhibitor, sodium-glucose cotransporter 2 inhibitor, glucagon-like peptide-1 receptor agonist, and insulin identified using the ATC code. |
| Hyperlipidemia            | Combination of ICD-10 codes E781–785, E788, and E789. Lipid-lowering agents: statin, fibrates, ezetimibe, omega-3-acid fatty acids, bile acid sequestrants, and proprotein convertase subtilisin/kexin type 9 inhibitor identified using the ATC code. |
| Cardiovascular disease    | At least one of the followings: Ischemic heart disease: ICD-10 codes I20–I25. Cerebral infarction: ICD-10 codes I60–I64. Heart failure: ICD-10 codes I50. Cardiomyopathy: ICD-10 codes I42, I43. Arrhythmia: ICD-10 codes I44, I45, I47–49. |
| Chronic kidney disease    | ICD-10 code N18.                                                                                                                                 |
| Chronic pulmonary disease | Combination of ICD-10 codes J44–J46. Medications: short-acting β2-agonist, long-acting β2-agonist, long-acting muscarinic antagonist, inhaled corticosteroids, leukotriene receptor antagonist, and phosphodiesterase-4 inhibitor identified using the ATC code. |
| Antihypertensive agents   | Angiotensin-converting enzyme inhibitor, angiotensin-receptor blocker, calcium channel blocker, β-blocker, diuretics, α-blocker, hydrazinophthalazine identified using the ATC code. |
| Glucose-lowering agents   | As above in the definition of diabetes mellitus.                                                                                           |
| Lipid-lowering agents     | As above in the definition of hyperlipidemia.                                                                                             |
| Antithrombotic agents     | Antiplatelet agents, novel oral anticoagulant, and warfarin identified using the ATC code.                                                   |

ICD-10, the Tenth Revision of the International Statistical Classification of Diseases and Related Health Problems; ATC, Anatomical Therapeutic Chemical.