

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 β 2-agonist, long-acting β 2-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, hydralazine, thiazide, and thiazide-like diuretic 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.