

**Table S1** Codes used to identify records of patients with CVD

Index condition	ICD-10-CM diagnosis codes
CHD	I20.001, I20.002, I20.003, I20.004, I20.005, I20.101, I20.801, I20.804, I20.806, I20.807, I21, I22, I23, I24, I25
HF	I50.003, I50.001, I50.005, I50.000x006, I50.100, I50.100, I50.102, I50.103, I50.107, I50.000, I50.907, I50.908, I50.900, I97.100x004, P29.000, I11.001, I11.000, I11.900, I13.000, I13.200, I50.900x017, I97.102, I97.803, I50.103, I50.901, P29.001, I50.900x018, I50.102, J81xx02, O99.417, O99.429, O75.403, O99.423, O99.402, O99.507, O29.102, O74.202, O75.402, O89.102, I50.901, I50.902, I50.903, I50.904, I50.905, I50.900x007, I50.900x008, I50.900x009, I50.900x010, R57.901, J81.x00, R57.000, J96.102
Stroke	I60, I61, I63, I64, I69, H34.1, G45

CVD, cardiovascular disease; CHD, coronary heart disease; HF, heart failure; ICD-10-CM, International Classification of Diseases, 10<sup>th</sup> revision, Clinical Modification.

**Table S2** Operation codes used to identify records of patients with CVD

Index condition	Operation	ICD-9-CM procedure codes	
		Beijing edition	Clinic edition
CHD	CAG	88.55001, 88.56001, 88.57002	88.5500, 88.5500x02, 88.5600, 88.5600x002, 88.5700, 88.5701, 88.5700x003, 88.5900
	PCI	36.06003, 36.06004, 36.07003	36.0600, 36.0601, 36.0602, 36.0700, 36.0700x004, 36.0701
	CABG	36.1101, 36.1201, 36.1301, 36.1401, 36.1501, 36.1601, 36.1701, 36.2001	

CVD, cardiovascular disease; CHD, coronary heart disease; CAG, coronary angiography; PCI, percutaneous coronary intervention; CABG, coronary artery bypass grafting; ICD-9-CM, International Classification of Diseases, 9<sup>th</sup> revision, Clinical Modification.

**Table S3** Prescription drugs categories used to identify records of patients with CVD

Index condition	Drug category
CHD	Organic nitrate esters
HF	Cardiac glycosides, phosphodiesterase inhibitors, adrenergic, and dopaminergic drugs
Stroke	Antihypertensive agents, almitrine-raubasine combination, calcium channel blockers, antimelancholic agents, peripheral vasodilators, antivertigo medication

CVD, cardiovascular disease; CHD, coronary heart disease; HF, heart failure.