

Supplementary Table 1. Definitions of cardiovascular and metabolic comorbidities by combinations of ICD-10th codes, GHS codes, and/or delivered drugs ATC codes.

Comorbidity	ICD-10th code		GHS Code		ATC Code
Diabetes	E10-11	Or	3901-3902	And/or	Insulin (A10A), oral-blood-glucose-lowering drugs (A10B)
Hypertension	I10	Or	1675	And/or	Anti-hypertensive drugs (C02), diuretics (C03), β blockers (C07), calcium channel blockers (C08), ACE inhibitors and angiotensin antagonists (C09)
Stroke	I60-I69	Or	9-10,163-64,170-173		
Coronary artery disease	I20-I25	Or	1403-06, 1429, 1650-57, 1660-61, 1676-77, 1681-88, 1692, 8256, 8319		
Peripheral artery disease	I70-I79	Or	1413-20, 1671-72		
Heart failure	I50-I51	Or	1120, 1421, 1666-67		
Cardiac arrhythmia	I44- I45, I47-I49	Or	1421-23, 1427-28, 1664-65, 1689-90, 8042-43	And/or	Cardiac glycosides (C01A), Antiarrhythmics, class I and III (C01B)
Other	I05- I09, I30-I49				

ICD: International Classification of Diseases, 10th version (see <http://apps.who.int/classifications/icd10/browse/2010/en>); GHS: *Groupe Homogène de Séjour*, that is, homogeneous groups of hospital stays (see <http://www.ameli.fr/l-assurance-maladie/documentation-technique/t2a-ccam-et-lpp/fichier-des-ghs-version-20-mars-2014.php>); ATC: Anatomical Therapeutic and Chemical classification system.

Supplementary Table 2. The definitions and ICD-10th codes and GHS codes and ATC for cardiovascular hospitalizations.

	Hospitalization	ICD-10th Code		GHS Code		ATC Code
Hypertension	Yes			1675	And	Anti-hypertensive drugs (C02), diuretics (C03), β blockers (C07), calcium channel blockers (C08), ACE inhibitors and angiotensin antagonists (C09)
Stroke	Yes	I60-I69	Or	9-10,163-64,170-173		
Coronary artery disease	Yes	I20-I25	Or	1403-06, 1429, 1650-57, 1660-61, 1676-77, 1681-88, 1692, 8256, 8319		
Peripheral artery disease	Yes	I70-I79	Or	1413-20, 1671-72		
Heart failure	Yes	I50-I51	Or	1120, 1421, 1666-67		
Cardiac arrhythmias	Yes	I44-I45, I47-I49	Or	1421-23, 1427-28, 1664-65, 1689-90, 8042-43	And/or	Cardiac glycosides (C01A), Antiarrhythmics, class I and III (C01B)
Other	Yes	I05-I09, I30-I49				

Hospitalization in a cardiology unit, a stroke unit, a cardiothoracic surgery department, a neurosurgery unit or an intensive care unit. ICD: International Classification of Diseases 10th version; GHS: *Groupe Homogène de Séjour*, that

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is, homogeneous groups of hospital stays; ATC: Anatomical Therapeutic and Chemical classification system.