

SUPPLEMENTAL MATERIAL

Positive predictive value of cardiovascular diagnoses in the Danish National Patient Registry: a validation study

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Supplementary Table 1. ICD-8 and ICD-10 codes for cardiovascular diagnoses.

	ICD-8 code^a	ICD-10 code	Location of admission
Myocardial infarction			
First-time myocardial infarction	410	I21	Inpatient
STEMI	N/A	I211B, I210B, I213	Inpatient
NSTEMI		I211A, I210A, I214	Inpatient
Recurrent myocardial infarction	410	I21	Inpatient
Stent thrombosis	N/A	T823D, T823E	Inpatient
Angina pectoris			
Stable angina pectoris	413	I20 (without I200), I251, I259	Inpatient
Unstable angina pectoris	411	I200	Inpatient
Heart failure			
First-time heart failure	42709, 42710, 42711, 42719, 42899, 78249	1500, 1501, 1502, 1503, 1508, 1509, 1110, 1130, 1132, I420, I426, I427, I428, I429	Inpatient
Readmission for heart failure	42709, 42710, 42711, 42719, 42899, 78249	1500, 1501, 1502, 1503, 1508, 1509, 1110, 1130, 1132, I420, I426, I427, I428, I429	Inpatient
Cardiomyopathy			
Dilated cardiomyopathy	425	I420	Inpatient or outpatient
Hypertrophic cardiomyopathy	N/A	I421, I422	Inpatient or outpatient
Restrictive cardiomyopathy	N/A	I425	Inpatient or outpatient
ARVC	N/A	I428A	Inpatient or outpatient
Takotsubo cardiomyopathy	N/A	I428B	Inpatient
Hypertension			
Arterial hypertension	400–404	I10-I15	Inpatient or outpatient
Pulmonary hypertension	426	I27	Inpatient or outpatient
Cardiac arrhythmias			
Atrial fibrillation or flutter	42793, 42794	I48	Inpatient or outpatient
Bradycardia	42720, 42721, 42722, 42723	I440, I441, I442, I443, I455A, I455B, I455C, I455G	Inpatient or outpatient
VT or VF	42797, 42791	I470, I472, I490	Inpatient or outpatient
Cardiac arrest	42727, 42797	I46	Inpatient
Valvular heart disease			
Mitral regurgitation or stenosis	394	I05, I34, I390, I511A	Inpatient or outpatient
Aortic regurgitation or stenosis	395	I06, I35, I391	Inpatient or outpatient
Inflammation/Infection			
Endocarditis	421	I33, I38, I398	Inpatient or outpatient
Myocarditis	422	I40, I41, I090, I514	Inpatient or outpatient
Pericarditis	39109, 393, 420, 423	I30-I32	Inpatient or outpatient
Aortic diseases			
Aortic dissection	44109	I710	Inpatient
Aortic aneurysm/dilatation	44110, 44111, 44119, 44120, 44121, 44129, 44199	I711-I716, I718-I719	Inpatient or outpatient
VTE			
First-time VTE	45100, 45108, 45109, 45099	I801-I803, I26	Inpatient or outpatient
First-time DVT	45100, 45108, 45109	I801-3	Inpatient or outpatient
First-time PE	45099	I26	Inpatient or outpatient
Recurrent VTE	45100, 45108, 45109, 45099	I801-I803, I26	Inpatient
Recurrent DVT	45100, 45108, 45109	I801-3	Inpatient
Recurrent PE	45099	I26	Inpatient
Other			
Arterial claudication	44389-44399	I739A	Inpatient or outpatient
Hypercholesterolemia	27200	E780	Inpatient or outpatient
Cardiac tumors	N/A	C38, C380, C388, D151, D487A, C380X, ZM88400	Inpatient or outpatient
Diagnostic modalities			
CT scan	N/A	UXCA	N/A
Ultra sound scan	N/A	UXUG	N/A

^aICD-8 codes were used to identify first-time and recurrent ICD-10 diagnoses.

Abbreviations: ICD, international classification of diseases; STEMI, ST-elevation myocardial infarction; NSTEMI, non-ST-elevation myocardial infarction; ARVC, arrhythmogenic right ventricular cardiomyopathy; VT or VF, ventricular tachycardia or ventricular fibrillation; VTE, venous thromboembolism; DVT, deep venous thrombosis; PE, pulmonary embolism; CT, computed tomography.

Supplementary Table 2. Medical chart extraction form

Variables	Explanation
Date	Date of the medical record review
Initials	Initials of the investigator
CPR number	Unique 10-digit Civil Personal Register number
CPR number (check)	Confirmation of the CPR number
SKS code	ICD-10 code of the diagnosis
Name of disease	An abbreviation of the diagnosis
Date of discharge	The date the patient was examined/discharged
Correct diagnosis	0=No, 1=Yes
Correct diagnosis for subgroups	0=No, 1=Yes
Data source	1=Discharge summary 2=Other medical record 3=Both 1+2
Algorithm	1=One investigator made the decision 2=A second independent reviewer agreed with the first reviewer 3=Consensus agreement
Comments	Any relevant comments