

Supplementary Table S1: Diagnoses and Procedure Codes

Diagnosis	ICD 10 – GM – 2020
Ischaemic stroke	I63.-, I64.-
Chronic Kidney Disease*	N18
Diabetes Mellitus	E10-E11
Obesity	E66.-
Dyslipidaemia	E78.-
Current Smoking Use	F17
Hypertensive Disease	I10-I15
Atrial Fibrillation	I48.-
Acute Myocardial Infarction	I21.-, I22.-
Coronary Heart Disease	I25.1
Congestive Heart Failure	I50.-
Left ventricular Failure	I50.1 et seqq.
Right Ventricular Failure	I50.0
Peripheral Artery Disease	I70.20 - I70.25
Dementia	F00.-, F01.--
Cancer	C
Previous Ischaemic stroke	I69.3, I69.4
Previous Intracranial bleeding	I69.0, I69.1, I69.2
Previous Valve	Z95.2
Previous CABG	Z95.1
* GFR <60ml/min/1.73m ² BSA	

Acute stroke as principal diagnosis and co-morbidities as secondary diagnoses were coded according to the German Modification of the International Statistical Classification of Diseases and Related Health Problems 10th Revision (ICD-10-GM). Procedures were coded according to the German Procedure Classification (OPS).

CABG denotes coronary artery bypass graft surgery; GFR glomerular filtration rate; BSA body surface area.

Supplementary Table S2: Definitions of complications and procedures according to ICD-10-GM and OPS codes

Complication	Parameter / ICD-10-GM code / OPS code
In-Hospital Death	7
Sepsis, unspecified	A41
Transfusion	8-800.c
Bleeding event	H44.8, K92, T81.0-3, K81.7
Haemorrhagic transformation	I60 – I62
Acute kidney injury	N17.-
Renal replacement therapy	8-853, 8-854, 8-855
GpIIb/IIIa inhibitor	6-002.j, 6-002.k, 6-002.m, 6-002.n
Resuscitation	8-771
Coronary artery bypass graft	5-36 et seqq.
Percutaneous coronary intervention	8-837 et seqq.
Systemic thrombolysis	8-020.8
Selective thrombolysis	8-836.70, 8-836.71
Intracerebral thrombolysis	8-020.d
Carotid endarterectomy	5-380.0, 5-380.1
Carotid stenting	8-840.0h, 8-840.0j, 8-840.0k, 8-840.0m, 8-840.1h, 8-840.1j, 8-840.1k, 8-840.1m, 8-840.2h, 8-840.2j, 8-840.2k, 8-840.2m, 8-840.3h, 8-840.3j, 8-840.3k, 8-840.3m
Carotid interponat	5-383.0
Craniectomy	5-010-10, 5-010-11, 5-010-12, 5-010-13, 5-010-14
Drainage of extracerebral hematoma	5-013.1

Drainage of intracerebral hematoma	5-014.1
Intra- and/or extracranial thromebectomy	8-836.80, 8-836.81
A code marked by a dash (-) indicates that all subheadings of this code are included.	

Definitions of complications and procedures were coded according to the German Modification of the International Statistical Classification of Diseases and Related Health Problems 10th Revision (ICD-10-GM). Procedures were coded according to the German Procedure Classification (OPS).

Supplementary Table S3: Results of logistic regression without interaction

Variable	Odds ratio	95% Confidence interval	P value
Age per year	1.05	1.05 – 1.05	<0.001
Female sex	1.12	1.11 – 1.14	<0.001
Hypertension	0.52	0.51 – 0.53	<0.001
Dyslipidemia	0.36	0.35 – 0.36	<0.001
Diabetes mellitus	1.09	1.08 – 1.11	<0.001
Obesity	0.82	0.79 – 0.85	<0.001
Dementia	0.80	0.78 – 0.82	<0.001
Current smoking	0.64	0.60 – 0.67	<0.001
Prev. isch. stroke	1.30	1.27 – 1.33	<0.001
Atrial fibrillation and flutter	1.35	1.34 – 1.37	<0.001
LEAD (RF stage 1 – 3)	1.05	1.00 – 1.10	0.034
CLTI (RF stage 4 – 6)	1.77	1.68 – 1.87	<0.001
CVD	0.90	0.88 – 0.91	<0.001
CHF	1.81	1.78 – 1.84	<0.001
CKD	1.07	1.06 – 1.09	<0.001
Cancer	2.32	2.25 – 2.39	<0.001
Intercept	$\beta_0 = -6.1160$	-6.17 – -6.06	<0.001

Results of logistic regression without interaction.

LEAD denotes lower extremity arterial disease; CLTI chronic limb threatening ischemia; CVD cardiovascular disease; CHF ventricular chronic heart failure; CKD chronic kidney disease; SE standard error.

Supplementary Table S4: Results of logistic regression with interaction between sex and all covariables.

Effect	Single effect			Interaction term with sex		
	B	SE	p-value	β	SE	p-value
Age per year	0.0475	0.0005	<0.001	0.00593	0.0007	<0.001
Female sex	-0.1055	0.0569	0.064	***	***	***
Hypertension	-0.5692	0.0109	<0.001	<.0001	0.0145	<0.001
Dyslipidemia	-0.9481	0.0124	<0.001	<.0001	0.0170	<0.001
Diabetes mellitus	0.1021	0.0111	<0.001	0,1677	0.0150	0.168
Obesity	-0.1739	0.0286	<0.001	0,2576	0.0380	0.258
Dementia	-0.0906	0.0215	<0.001	<.0001	0.0273	<0.001
Current smoking	-0.5046	0.0351	<0.001	0,0238	0.0591	0.024
Prev. Ish. Stroke	0.2772	0.0169	<0.001	0,1115	0.0235	0.112
Atrial fibrillation and flutter	0.3196	0.0107	<0.001	0,0401	0.0141	0.040
CLTI (RF stage 4 – 6)	0.0550	0.0317	0.083	0,4850	0.0491	0.485
LEAD (RF stage 1 – 3)	0.5685	0.0364	<0.001	0,7753	0.0534	0.775
CVD	-0.1414	0.0148	<0.001	0,0043	0.0207	0.004
CHF	0.7398	0.0131	<0.001	<.0001	0.0173	<0.001
CKD	0.1593	0.0132	<0.001	<.0001	0.0175	<0.001
Cancer	0.9260	0.0194	<0.001	<.0001	0.0291	<0.001
Intercept	$\beta_0 = -5.9895$, SE= 0.0404					<0.001

CLTI denotes chronic limb threatening ischemia; LEAD lower extremity arterial disease; CVD cardiovascular disease; CHF ventricular chronic heart failure; CKD chronic kidney disease; SE standard error.