

## Supplementary material

**Table 1: Operationalization of the comorbidity**

Comorbidity	ICD-10-GM-Code
Elixhauser comorbidity measure*	
Congestive heart failure	I099, I110, I130, I132, I255, I420, I425-I429, I43, I50, P290
Cardiac arrhythmias	I441-I443, I456, I459, I47-I49, R000, R001, R008, T821, Z450, Z950
Valvular disease	A520, I05-I08, I091, I098, I34-I39, Q230-Q233, Z952-Z954
Pulmonary circulation disorders	I26, I27, I280, I288, I289
Peripheral vascular disorders	I70, I71, I731, I738, I739, I771, I790, I792, K551, K558, K559, Z958, Z959
Hypertension (complicated)	I11-I13 , I15
Hypertension (uncomplicated)	I10
Paralysis	G041, G114, G801, G802, G81, G82, G830-G834, G839
Other neurological disorders	G10-G13, G20-G22, G254-G255, G312, G318, G319, G32, G35-G37, G40, G41, G931, G934, R470, R56
Chronic pulmonary disease	I278, I279, J40-J47, J60-J67, J684, J701, J703
Diabetes (complicated)	E102-E108, E112-E118, E122-E128, E132-E138, E142-E148
Diabetes (uncomplicated)	E100, E101, E109, E110, E111, E119, E120, E121, E129, E130, E131, E139, E140, E141, E149
Hypothyroidism	E00-E03 , E890
Renal failure	I120, I131, N18, N19, N250, Z490-Z492, Z940, Z992
Liver disease	B18, I85, I864, I982, K70, K711, K713-K715, K717, K72, K74, K760, K762, K769, Z944
Peptic ulcer disease (excluding bleeding)	K257, K259, K267, K269, K277, K279, K287, K289
AIDS / HIV	B20-B24, B20-B22, B24
Lymphoma	C81-C85, C88 , C96, C900, C902
Metastatic cancer	C77, C78, C79, C80
Solid tumor without metastasis	C00-C14, C15-C26, C30-C39, C40-C41, C43, C45-C49, C50, C51-C58, C60-C63, C64-C68, C69-C72, C73-C75, C76, C97
Rheumatoid arthritis/ collagen vascular diseases	L940, L941, L943, M05, M06, M08, M120, M123, M30, M310-M313 , M32, M33, M34, M35, M45, M461, M468, M469
Coagulopathy	D65, D66, D67, D68, D691, D693-D696
Obesity	E66

Weight loss	E40-E46, R634, R64
Fluid and electrolyte disorders	E222, E86, E87
Blood loss anemia	D500
Deficiency anemias	D508, D509, D51-D53
Alcohol abuse	F10, E52, G621, I426, K292, K700, K703, K709, T51, Z502, Z71, Z721
Drug abuse	F11 – F16, F18, F19, Z715, Z722
Psychoses	F20, F22-F25, F28, F29, F302, F312, F315
Depression	F204, F313-F315, F32, F33, F341, F412, F432
Other comorbidities**	
Past stroke	I63, I64, I693, I694
Recurrent myocardial infarction	I22
Past acute coronary syndrome	I200, I21
Coronary artery disease	I201, I208, I209, I22-I25
Dyslipidemia	E78

ICD-10-GM= International Classification of Diseases, 10th Revision, German Modification

\*Every listed disease was included in the logistic regression model to calculate the propensity score and in an aggregate form in the Cox regression model

\*\*Every listed disease was included in the logistic regression model to calculate the propensity score and in the Cox regression model

**Table 2: Operationalization of the interventions**

Interventions	EBM-Code / OPS-Code
Outpatient PCI	5120+5122 (until 31.03.2005) or 34291+34292 (from 01.04.2005) 9030+9031 (until 31.03.2005) or 99030+99031 (from 01.04.2005) in the association of SHI physicians in Bremen (Kassenärztliche Vereinigung Bremen)
Inpatient PCI	8837
Coronary bypass surgery*	536

PCI= Percutaneous coronary intervention, OPS= Operationen- und Prozedurenschlüssel, EBM= Einheitlicher Bewertungsmaßstab, SHI= Statutory health insurance

\*Coronary bypass surgery was included in the logistic regression model to calculate the propensity score and in the Cox regression model

**Table 3: Definition of the regions**

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<b>Regions</b>
Federal state*
Baden-Württemberg
Bavaria
Berlin
Brandenburg
Bremen**
Hamburg
Hesse
Lower Saxony
Mecklenburg-Vorpommern
North Rhine-Westphalia
Rhineland-Palatinate
Saarland
Saxony
Saxony-Anhalt
Schleswig-Holstein
Thuringia

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\*The federal states were only included in the logistic regression model to calculate the propensity score

\*\*Bremen was the reference in the logistic regression model calculating the propensity score.

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