

Supplemental Table S1. Definitions of baseline covariates

<b>Diagnosis</b>	<b>ICD-10-CM code or prescription code</b>	<b>Diagnostic definition</b>
<b>Atrial fibrillation</b>	I48	Admission $\geq$ 1 or outpatient department $\geq$ 2
<b>Hypertension</b>	I10-I13, I15	Admission $\geq$ 1 or outpatient department $\geq$ 2
<b>Diabetes mellitus</b>	E10-E14	Admission $\geq$ 1 or outpatient department $\geq$ 2
<b>Heart failure</b>	I11.0, I13.0, I13.2, I42, I50	Admission $\geq$ 1 or outpatient department $\geq$ 2
<b>Chronic kidney disease</b>	I12, I13, N00-05, N07, N11, N14, N17-19, Z49, Q61	Admission or outpatient department $\geq$ 1
<b>End-stage renal disease</b>	N185, Z49	Admission or outpatient department $\geq$ 1
<b>Liver cirrhosis</b>	K74, K702, K703, K717, K761	Admission or outpatient department $\geq$ 1
<b>Myocardial infarction</b>	I21, I22, I23	Admission $\geq$ 1 or outpatient department $\geq$ 2
<b>Ischemic stroke</b>	I63, I64	Admission $\geq$ 1 or outpatient department $\geq$ 2
<b>Intracranial hemorrhage</b>	I60-62	Admission $\geq$ 1 or outpatient department $\geq$ 2
<b>GI bleeding</b>	I85.0, K22.1, K22.8, K25.0, K25.2, K25.4, K25.6, K26.0, K26.2, K26.4, K26.6, K27.0, K27.2, K27.4, K27.6, K28.0, K28.2, K28.4, K28.6, K29.0, K31.8, K55.2, K57.0, K57.1, K57.2, K57.3, K57.4, K57.5, K57.8, K57.9, K62.5, K66.1, K92.0, K92.1, K92.2	Admission $\geq$ 1 or outpatient department $\geq$ 2
<b>PCI</b>	M6561, M6562, M6563, M6564, M6565, M6566	Operation codes
<b>CABG</b>	O1640, O1641, O1645, O1646, O1647, O1648, O1649	Operation codes
<b>DOAC dose</b>		
<b>Low dose</b>		Dabigatran 110mg, rivaroxaban

<b>Standard dose</b>		10mg/15mg, apixaban 2.5mg, or edoxaban 15mg/30mg Dabigatran 150mg, rivaroxaban 20mg, apixaban 5mg, or edoxaban 60mg
<b>Drug-eluting stent</b>	J5083001, J5083002, J5083011, J5083029, J5083040, J5083046, J5083070, J5083101, J5083137, J5083140, J5083173, J5083201, J5083213, J5083237, J5083240, J5083273, J5083301, J5083401, J5083501, J5231221, J5231294, J8083033, J8083089, J8083129, J8083340, J8083440, J8083473, J5231306, J5231045, J5231065, J5083006, J5083013, J5083042, J5083073, J5083113, J8083073, J8083373	Material codes at the time of PCI

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GI = gastrointestinal; PCI = percutaneous coronary intervention; CABG = coronary artery bypass graft; DOAC = direct oral anticoagulant.

Supplemental Table S2. Definitions of study outcomes

<b>Outcomes</b>	<b>ICD-10-CM code</b>	<b>Diagnostic definition</b>
<b>MACE</b>		A composite event of cardiovascular death, myocardial infarction, ischemic stroke or systemic thromboembolism
<b>Cardiovascular death*</b>	I00.X-I99.X or R96, R98, R99	Recorded as a major cause of death
<b>Myocardial infarction</b>	I21, I22, I23	Major diagnosis for admission during the study period
<b>Ischemic stroke</b>	I63, I64	Major diagnosis for admission during the study period
<b>Systemic thromboembolism</b>	I74, I26, I80.2	Major diagnosis for admission during the study period
<b>Major bleeding</b>		Major diagnosis of ICH, GI bleeding or other critical area bleeding for admission during the study period
<b>ICH</b>	I60-62	Major diagnosis for admission during the study period
<b>GI bleeding</b>	I85.0, K22.1, K22.8, K25.0, K25.2, K25.4, K25.6, K26.0, K26.2, K26.4, K26.6, K27.0, K27.2, K27.4, K27.6, K28.0, K28.2, K28.4, K28.6, K29.0, K31.8,	Major diagnosis for admission during the study period

	K55.2, K57.0, K57.1, K57.2, K57.3, K57.4, K57.5, K57.8, K57.9, K62.5, K66.1, K92.0, K92.1, K92.2	
<b>Other critical area bleeding</b>	D62, H05.2, H35.6, H43.1, J94.2, M25.0, I312, I319	Major diagnosis for admission during the study period
<b>Any critical anatomical site bleeding</b>		New diagnosis of ICH, GI bleeding or other critical area bleeding for either admission or outpatient visit, during the study period

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\*Causes of deaths were identified by the data provided from the Korean national statistical office.

MACE = major adverse cardiovascular event; ICH = intracranial hemorrhage; GI = gastrointestinal.