

Supplementary table 1: ICD-10 codes used

Diagnosis	ICD-10 Code
STEMI	I21.0, I21.01, I21.02, I21.09, I21.1, I21.11, I21.19, I21.2, I21.21, I21.29
NSTEMI	I21.4, I22.2
TAVR	02RF37H 02RF37Z 02RF38H 02RF38N 02RF38Z 02RF3JH 02RF3JZ 02RF3KH 02RF3KZ
Valve leak	T8203 T8203XA T8203XD T8203XS T82223 T82223A T82223D T82223S
Valve displacement	T8202 T8202XA T8202XD T8202XS T82222 T82222A T82222D T82222S
Valve infection	T826XXA T826XXD T826XXS
Valve breakdown	T8201 T8201XA T8201XD T8201XS T8222 T8222A T8222D T8222S
Unspecified valvular complications	T8209 T8209XA T8209XD T8209XS T82228 T82228A T82228D T82228S
Conversion to open surgery	02WFF0 02WFF0Z 02WFF08Z 02WFF0JZ 02WFF0KZ 02RF0 02RF0Z 02RF08N 02RF08Z 02RF0JZ
Ischemic CVA	I63.00, I63.01, I63.011, I63.012, I63.013, I63.013, I63.019, I63.02, I63.03, I63.031, I63.032, I63.033, I63.039, I63.09, I65.01, I65.02, I65.03, I65.09, I66.01
Gastrointestinal bleed	I85.01, I85.11, K20.81, K20.91, K21.01, K22.11, K22.6, 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, K29.01, K29.21, K29.31, K29.41, K29.51, K29.61, K29.71, K29.81, K29.91, K31.811, K31.82, K50.011, K50.111, K50.811, K50.911, K51.011, K51.211, K51.311, K51.411, K51.511, K51.811, K51.911, K55.21, K57.01, K57.11, K57.13, K57.21, K57.31, K57.33, K57.41, K57.51, K57.53, K57.81, K57.91, K57.93, K62.5, K92.0, K92.1, K92.2
Intracranial hemorrhage	I60, I60.0, I60.00, I60.01, I60.02, I60.1, I60.10, I60.11, I60.12, I60.2, I60.3, I60.30, I60.31, I60.32, I60.4, I60.5, I60.50, I60.51, I60.52, I60.6, I60.7, I60.8, I60.9, I61, I61.0, I61.1, I61.2, I61.3, I61.4, I61.5, I61.6, I61.8, I61.9, I62, I62.0, I62.00, I62.0, I62.02, I62.03, I62.1, I62.9
Pulmonary hemorrhage	R04.2, R04.89, R04.9
Other bleed	D69.9, D68.3, D68.32, D68.31, R58
Hypertension	I10, I15.0, I15.1, I15.2, I15.3, I15.9
Smoking	F17, F17.2, F17.20, F17.200, F17.201, F17.203, F17.208, F17.209, F17.21, F17.210, F17.211, F17.213, F17.218, F17.219, F17.29, F17.290, F17.291, F17.293, F17.298, F17.299

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Diabetes mellitus	E08.0, E08.00, E08.01, E08.1, E08.10, E08.11, E08.2, E08.21, E08.22, E08.29, E10.3, E10.31, E10.311, E11.0, E11.00, E11.01, E11.1, E11.10, E11.11, E11.2, E11.21, E11.22, E11.29, E13.0, E13.00, E13.01, E13.1, E13.10, E13.11, E13.2, E13.21, E13.22, E13.29
Peripheral vascular disease	I70.0, I70.1, I70.2, I70.3, I70.4, I70.5, I70.6, I70.7, I70.8, I70.9, I73.8, I73.9, I79.8, E11.0, K55.1, K55.8, K55.9, Z9862
History of CAD	I25.2, Z98.61, Z95.5, Z95.1, T82855, T82855A, T82855D, T82855S
Chronic kidney disease	N18.1, N18.2, N18.3, N18.30, N18.31, N18.32, N18.4, N18.5, N18.9
Heart failure	I50.20, I50.21, I50.22, I50.23, I50.30, I50.31, I50.32, I50.33, I50.40, I50.41, I50.42, I50.43, I50.9, I50.2, I11.0, I13.0, I13.2, I09.81, I25.5, I42.0, I42.5, I42.6, I42.7, I42.8, I42.9, I97.13, I50.8, I50.81, I50.82, I50.83, I50.84, I50.89, I50.810, I50.811, I50.812, I50.813, I50.814
Atrial fibrillation	I48.0, I48.1, I48.11, I48.19, I48.20, I48.21, I48.91, I48.2, I84.9
Acute kidney injury	N17.0, N17.1, N17.2, N17.8, N17.9, N99.0

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Supplementary table 2: Outcomes of patients who underwent TAVR and had STEMI within 90 days before the procedure VS those who underwent TAVR with no prior STEMI

	No AMI within 90 days N=113,152 (99.8)	STEMI within 90 days N=148 (0.2)	aOR/aMD (95% CI)	P-value
Inpatient mortality (%)	1,205 (1.1)	NR	3.5 (0.76 - 16.46)	0.11
Ischemic CVA (%)	629 (0.5)	NR	5.4 (0.72 - 40.03)	0.09
Major bleeding (%)	1,677(1.4)	NR	1.68 (0.40 - 6.99)	0.47
Valvular complications (%)	750 (99.3)	NR	N/A	N/A
Acute kidney injury (%)	9,756 (8.6)	32 (22.1)	3.2 (1.68 - 6.21)	<0.001
LOS in days, mean (SD)	3.4 (0.1)	5.3 (0.4)	1.91 (0.32 - 3.51)	0.02
Total charges in US \$, mean (SD)	215,216 (8,844)	239,722 (30,729)	26,216 (-4,101-56,534)	0.09

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Supplementary table 3: Outcomes of patients who underwent TAVR and had NSTEMI within 90 days before the procedure VS those who underwent TAVR with no prior NSTEMI

	No AMI within 90 days N=113,152 (99.8)	NSTEMI within 90 days N=148 (0.2)	aOR/aMD (95% CI)	P-value
Inpatient mortality (%)	1,193 (1.1)	17 (0.9)	0.92 (0.5 - 1.69)	0.79
Ischemic CVA (%)	625 (0.6)	NR	0.89 (0.32 - 2.52)	0.84
Major bleeding (%)	1,630 (1.4)	51 (2.6)	1.97 (1.23 - 3.14)	0.004
Valvular complications (%)	738 (0.6)	12 (0.6)	1.05 (0.53 - 2.11)	0.88
Acute kidney injury (%)	9,513 (8.5)	275 (14.5)	1.74 (1.42 - 2.14)	<0.001
LOS in days, mean (SD)	3.4 (0.1)	4.3 (0.5)	0.87 (0.36 - 1.37)	0.001
Total charges in US \$, mean (SD)	215,015 (31,870)	228,952 (8,874)	14,419 (5,356- 23,482)	0.002

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Supplementary table 4: Outcomes after excluding transapical TAVR

	No AMI within 90 days N= 110,684 (98.2)	AMI within 90 days N=2,021 (1.8)	aOR/aMD (95% CI)	P-value
Inpatient mortality (%)	1,170 (1)	20 (1)	1 (0.56 - 1.91)	0.89
Ischemic CVA (%)	614 (0.5)	NR	1.23 (0.48 - 3.11)	0.65
Major bleeding (%)	1,611 (1.4)	56 (2.7)	1.98 (1.27 - 3.10)	0.003
Valvular complications (%)	735 (0.6)	12 (0.6)	0.98 (0.48 - 1.96)	0.95
Acute kidney injury (%)	9,374 (8.4)	306 (15.1)	1.88 (1.54 - 2.30)	<0.001
LOS in days, mean (SD)	3.4 (0.1)	4.4 (0.5)	0.97 (0.49 - 1.45)	<0.001
Total charges in US \$, mean (SD)	214,683 (8,847)	229,903 (11,014)	16,014 (7,340 - 24,689)	<0.001