

Supplementary Table 1: List of ICD-9-CM codes used to define variables

Variable	ICD-9-CM Codes
<u>Procedure related</u>	
Tricuspid valve (TV) surgery	
TV repair	35.14
TV replacement – bioprosthetic	35.27
TV replacement – mechanical	35.28
Mitral valve surgery	35.12, 35.23, 35.24
Aortic valve surgery	35.11, 35.21, 35.22
Pulmonic valve surgery	35.13, 35.25, 35.26
Other valve surgeries	35.10, 35.20, 35.33, 35.95, 35.99
Other cardiac surgeries	35.34, 35.35, 35.39, 35.4, 35.53, 35.54, 35.62, 35.63, 35.72, 35.73, 35.8, 35.9, 37.32, 37.35, 37.52, 37.53, 37.54, 37.55, 37.63, 37.64, 38.45, 39.0, 39.21
Coronary artery bypass graft surgery	36.10 - 36.19, 36.2, 36.31, 36.32, 36.39
Prior valve surgery	V43.3
Prior coronary artery bypass surgery	V45.81
Prior ventricular assist device / total artificial heart	V43.21
<u>Diagnosis related</u>	
Tricuspid valve disease	397.0, 424.2
Congenital heart disease	424.3, 429.71, 745.0, 745.1, 745.11, 745.12, 745.19, 745.2, 745.4, 745.5, 745.6, 745.61, 745.7, 745.8, 745.9, 746.00, 746.01, 746.02, 746.09, 746.1, 746.2, 746.5, 746.7, 746.82, 746.83, 746.84, 746.85, 746.89, 746.9, 747.0, 747.11, 747.3, 747.41, 747.42
Endocarditis	036.42, 074.22, 093.20, 093.21, 093.22, 093.23, 093.24, 098.84, 112.81, 115.04, 115.14, 115.94, 391.1, 397.1, 421.0, 421.1, 421.9, 424.3, 424.90, 424.91, 710.0

Supplementary Table 2: In-Hospital Outcomes of Unmatched Patients Undergoing Isolated Tricuspid Valve Surgery from 2004-2013

	Males (n = 442)	Females (n = 599)	P value
Clinical Outcome, N (%)			
In-Hospital Mortality	43 (9.8)	49 (8.2)	0.38
Permanent Pacemaker Implantation	122 (27.6)	149 (24.9)	0.32
Acute Cerebrovascular Accident	7 (1.6)	20 (3.3)	0.07
Acute Kidney Injury	142 (32.1)	134 (22.4)	<0.0001
Acute Kidney Injury Requiring Dialysis	19 (4.3)	24 (4.0)	0.82
Cardiogenic Shock	31 (7.0)	34 (5.7)	0.38
Blood Transfusion	149 (33.7)	234 (39.1)	0.08
Discharge Status, N (%)			
Discharged to Home	309 (69.9)	409 (68.3)	0.54
Discharged SNF ¹ /NH ² /IC ³	85 (19.2)	131 (21.9)	
Length of Stay in days, mean ± SD	17.5 ± 18.2	17.9 ± 23.0	0.40
Hospital Charges x\$1000, mean ± SD	249 ± 243	231 ± 282	0.54
¹ Skilled nursing facility, ² Nursing home, ³ Intermediate care facility			

Supplementary Table 3: Baseline characteristics of males and females propensity score matched by only clinically relevant variables

	Males (n=399)	Females (n=399)	P value
Age, mean \pm SD ¹	57.7 \pm 17.7	57.9 \pm 16.9	0.87
Race, N (%)			
Caucasian	231 (57.9)	224 (56.1)	
African American	40 (10.0)	40 (10.0)	0.92
Hispanic	21 (5.3)	23 (5.8)	
Teaching Hospital, N (%)	345 (86.5)	346 (86.7)	0.92
Medical Comorbidity, N (%)			
Hypertension	192 (48.1)	190 (47.6)	0.89
Diabetes	73 (18.3)	85 (21.3)	0.29
Coronary Artery Disease	153 (38.3)	126 (31.6)	0.045
Atrial Fibrillation/Flutter	193 (48.4)	194 (48.6)	0.94
History of Permanent Pacemaker/ICD ²	46 (11.5)	46 (11.5)	1.0
Pulmonary Hypertension	87 (21.8)	83 (20.8)	0.73
Chronic Pulmonary Disease	63 (15.8)	65 (16.3)	0.85
Anemia	87 (21.8)	78 (19.5)	0.43
Chronic Kidney Disease	75 (18.8)	80 (20.1)	0.66
End-Stage Renal Disease	25 (6.3)	20 (5.0)	0.44
Liver Disease	36 (9.0)	28 (7.0)	0.30
Cirrhosis	17 (4.3)	17 (4.3)	1.0
Charlson Co-morbidity Index \geq 2	228 (57.1)	231 (57.9)	0.83
Prior Sternotomy, N (%)	42 (10.5)	42 (10.5)	1.0
Prior Valve Surgery, N (%)	22 (5.5)	38 (9.5)	0.03
Surgical Characteristics, N (%)			
TV ³ Replacement – Mechanical	89 (22.3)	90 (22.6)	0.93
TV Replacement – Bioprosthetic	149 (37.3)	144 (36.1)	0.71
TV Repair	163 (40.9)	168 (42.1)	0.72
Concomitant CABG ⁴	87 (21.8)	85 (21.3)	0.86
¹ Standard deviation, ² Implantable cardiac defibrillator, ³ Tricuspid valve, ⁴ Coronary artery bypass graft surgery			

Supplementary Table 4: In-hospital outcomes of males and females propensity score matched by only clinically relevant variables – A sensitivity analysis

	Males (n=399)	Females (n=399)	P value
Clinical Outcome, N (%)			
In-Hospital Mortality	37 (9.3)	31 (7.8)	0.45
Cardiogenic Shock	25 (6.3)	25 (6.3)	1.0
Permanent Pacemaker Implantation	113 (28.3)	96 (24.1)	0.17
Transient Ischemic Attack	0 (0.0)	1 (0.3)	1.0
Acute Cerebral Vascular Accident	7 (1.8)	12 (3.0)	0.25
Blood Transfusion	138 (34.6)	152 (38.1)	0.30
Discharge Status, N (%)			
Discharged Home	284 (71.2)	269 (67.4)	0.31
Discharged SNF ¹ /NH ² /IC ³	74 (18.5)	95 (23.8)	
Length of Stay, median (IQR ⁴), days	11 (7-20)	11 (7-20)	0.99
Hospital Charges, median (IQR), x\$1000	165 (107-276)	157 (102-241)	0.04
*For small sample sizes an exact binomial test was used in place of McNemar's test			
¹ Skilled nursing facility, ² Nursing home, ³ Intermediate care facility, ⁴ Interquartile range			