

SUPPLEMENTAL MATERIAL

Data S1.

1.0 ICD 10 codes

Valve dysfunction: T82.01XA, T82.02XA, T82.03XA, T82.09XA, T82.221A, T82.222A, T82.223A, T82.228A, Z45.09, Z95.2, and T82.857

Redo-MVR: 02RG07Z, 02RG08Z, 02RG0KZ, and 02RG0JZ

MViV: 02RG37H,02RG37Z, 02RG38H, 02RG38Z,02RG3JH, 02RG3JZ, 02RG3KH, and 02RG3KZ

Mitral clip: 35.97, 02UG3JZ

CPR procedure code: 996.0 and 5A12012

Percutaneous coronary intervention: 3601-09, 0270, 0271,0272,0273

Pericardial effusion/Hemopericardium: 423.0 and I31.2

Cardiac Tamponade: 423.3 and I314

Pericardiocentesis: 370 And 0W9D3, 0W9D4

Cardiogenic Shock: 78551, R570, T8111XA

Need for blood products transfusion: 990x, 3023x

Pleural Effusion: 5111,51181,51189,5119, J90, J918

Pneumonia bacterial: 481-486; J13-J18

Tracheostomy: 519-, 312-,311-, 0B110--, 0B11-3-, 0B114--

PEG: 430,431-, 0DH60--, 0DH63--, 0DH67--, 0DH64--, 0DH68--, 0DHA0--, 0DHA3--, 0DHA4--, 0DHA8--, 0DH90--, 0DH93—

Vent: 9670-2, 5A1935Z, 5A1945Z, 5A1955Z

Co morbidity	ICD-10
Congestive heart failure	I09.9, I11.0, I13.0, I13.2, I25.5, I42.0, I42.5–I42.9, I43.x, I50.x, P29.0
Peripheral vascular	I70.x, I71.x, I73.1, I73.8, I73.9, I77.1,I79.0, I79.2, K55.1, K55.8, K55.9,Z95.8, Z95.9

Cerebrovascular disease	G45.x, G46.x, H34.0, I60.x–I69.x
Chronic pulmonary disease	I27.8, I27.9, J40.x–J47.x, J60.x–J67.x, J68.4, J70.1, J70.3
Diabetes without chronic	E10.0, E10.1, E10.6, E10.8, E10.9, E11.0, E11.1, E11.6, E11.8, E11.9, E12.0, E12.1, E12.6, E12.8, E12.9, E13.0, E13.1, E13.6, E13.8, E13.9, E14.0, E14.1, E14.6, E14.8, E14.9
Renal disease	I12.0, I13.1, N03.2–N03.7, N05.2–N05.7, N18.x, N19.x, N25.0, Z49.0–Z49.2, Z94.0, Z99.2
Peripheral vascular disorders	I70.x, I71.x, I73.1, I73.8, I73.9, I77.1, I79.0, I79.2, K55.1, K55.8, K55.9, Z95.8, Z95.9
Congestive heart failure	I09.9, I11.0, I13.0, I13.2, I25.5, I42.0, I42.5–I42.9, I43.x, I50.x, P29.0
Hypertension, uncomplicated	I10.x
Hypertension, complicated	I11.x–I13.x, I15.x
Chronic pulmonary disease	I27.8, I27.9, J40.x–J47.x, J60.x–J67.x, J68.4, J70.1, J70.3
Diabetes, uncomplicated	E10.0, E10.1, E10.9, E11.0, E11.1, E11.9, E12.0, E12.1, E12.9, E13.0, E13.1, E13.9, E14.0, E14.1, E14.9
Diabetes, complicated	E10.2–E10.8, E11.2–E11.8, E12.2–E12.8, E13.2–E13.8, E14.2–E14.8
Renal failure	I12.0, I13.1, N18.x, N19.x, N25.0, Z49.0–Z49.2, Z94.0, Z99.2
Liver disease	B18.x, I85.x, I86.4, I98.2, K70.x, K71.1, K71.3–K71.5, K71.7, K72.x–K74.x, K76.0, K76.2–K76.9, Z94.4
coagulopathy	D65–D68.x, D69.1, D69.3–

	D69.6
obesity	E66.x
Deficiency anemia	D50.8, D50.9, D51.x–D53.x

Table S1. ICD-10 codes used

2.0 Variables used in Propensity match analysis

1. Age
2. Gender
3. Race
4. Anemia
5. Cerebrovascular disease
6. Congestive heart failure
7. Chronic pulmonary disease
8. Coagulopathy
9. Hypertension
10. Diabetes
11. obesity
12. Hypertension
13. Smoking
14. Peripheral vascular disorders
15. Weight loss
16. Urban/rural setting
Rural, urban, urban teaching
17. Hospital bedsize
Small, medium, large
18. Payer
Medicare, Medicaid, private, others

3.0 Data Representation after propensity matching

Figure S1. Propensity scores of match and un matched cohorts.

Distribution of Propensity Scores

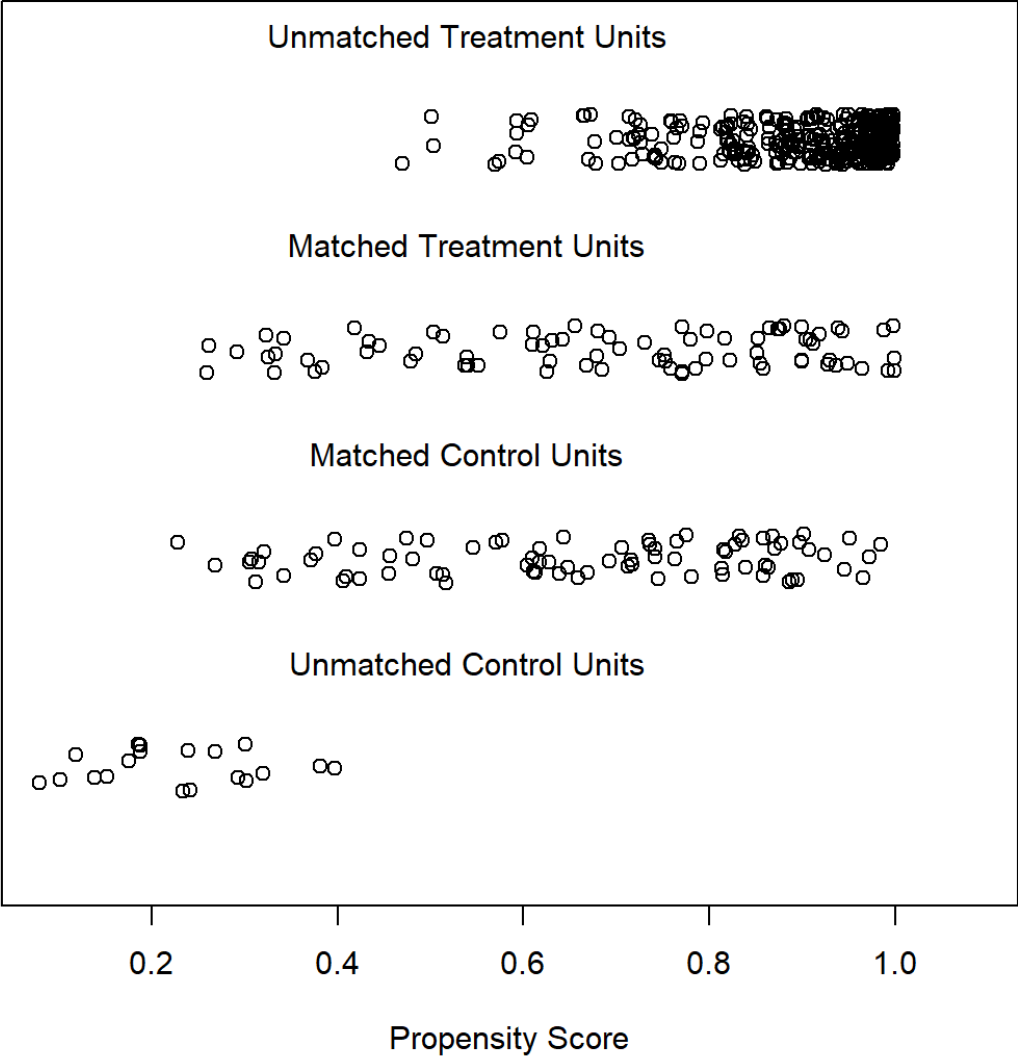


Figure S2. Absolute Standardized difference in means of matched and unmatched cohort.

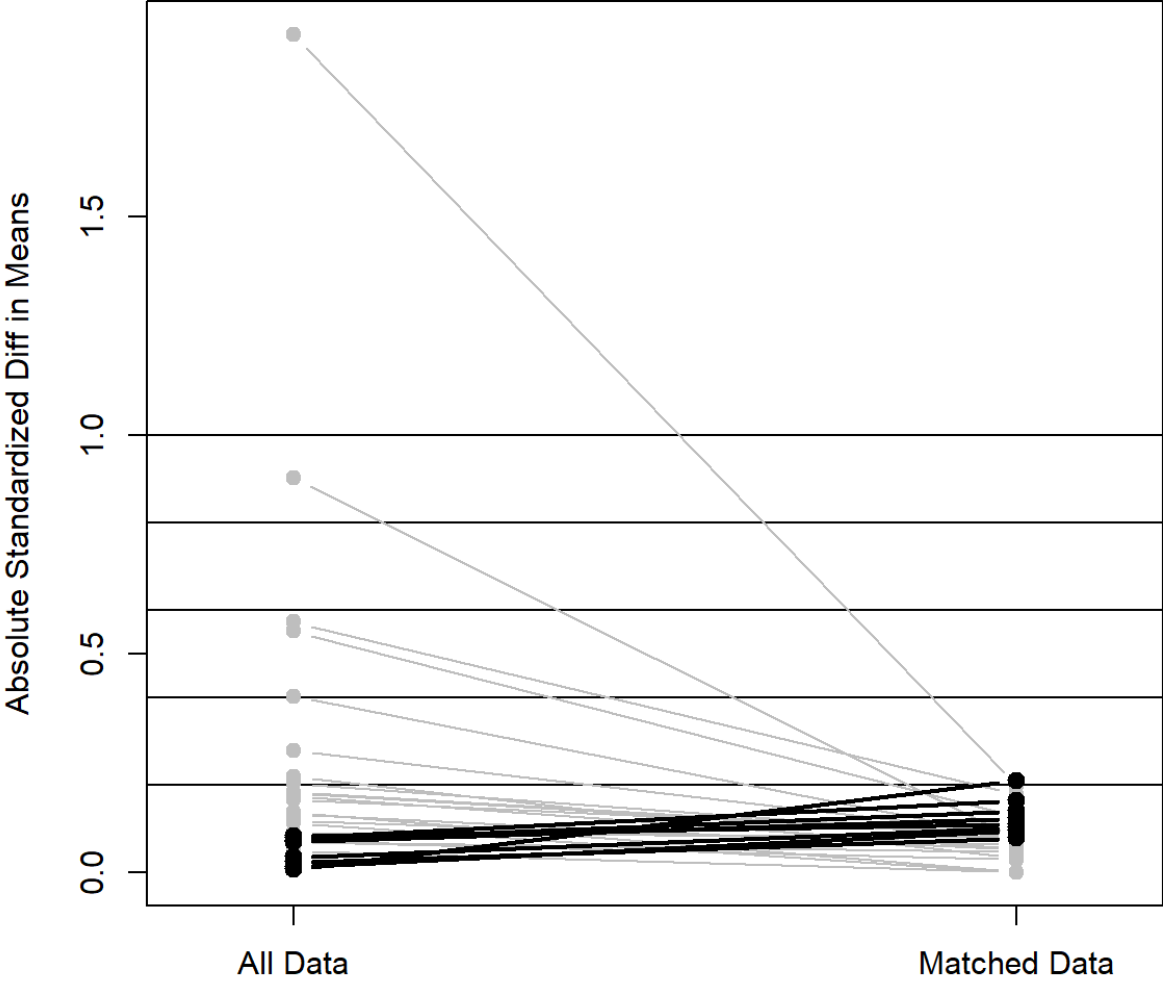


Figure S3. Propensity score histograms of matched and unmatched data.

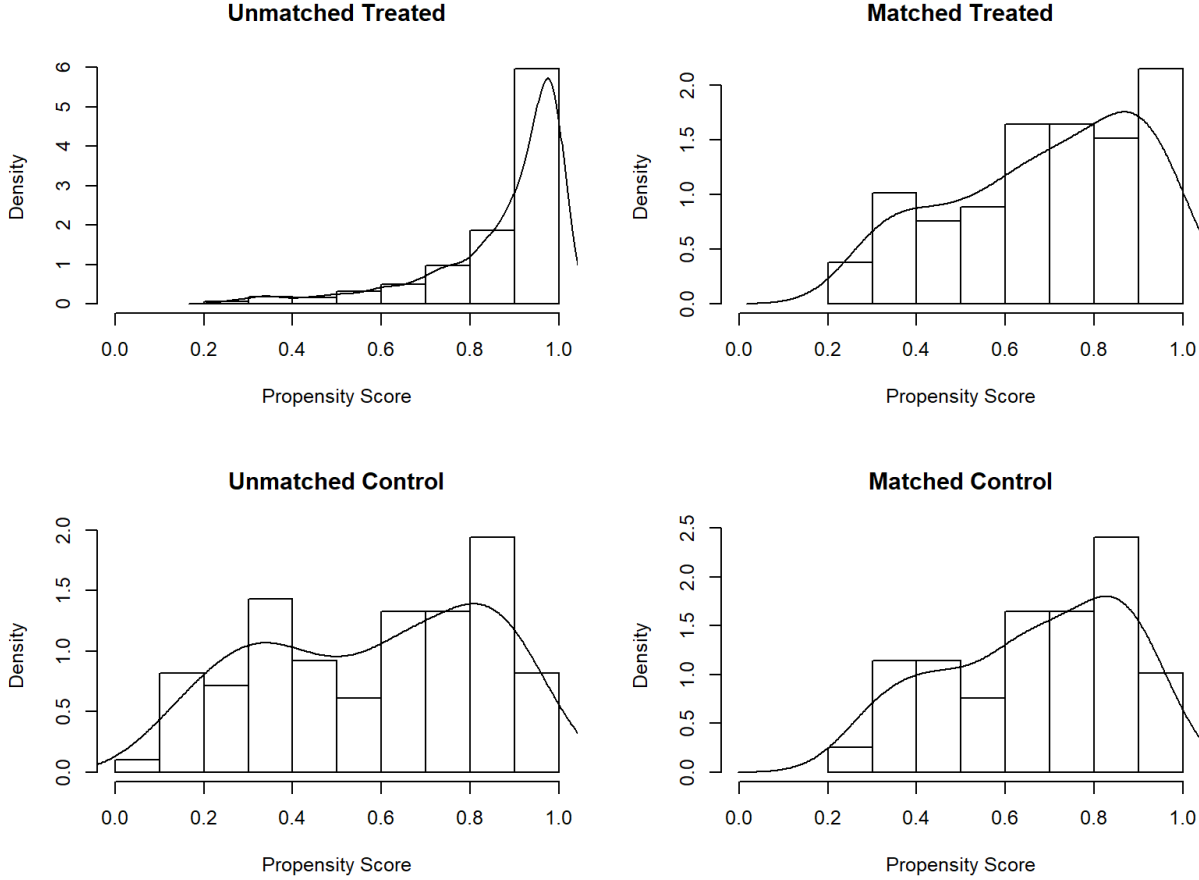
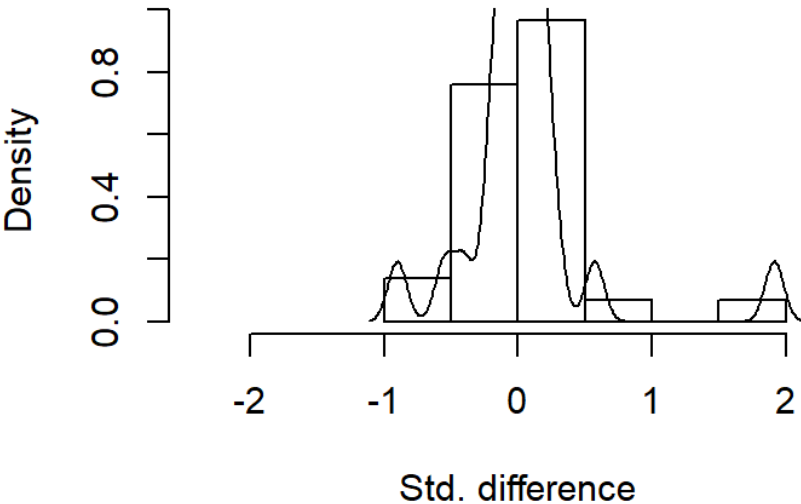


Figure S4. Standardized mean difference before and after matching.

Standardized differences before matching



Standardized differences after matching

