

SUPPLEMENTAL MATERIAL

Table S1. Variable Missing Rates and Imputation Methods for Model Covariates.

Variable	Missing Rate	Note on Missing Imputation
Demographics		
Age*	0	
Female	0	
Race	2.41	Recode as “Other”
SES	0	
Medical history: any field except smoking	5.25	Impute to “No,” as we assume it was not checked when none applied
Medical history: smoking	0.26	Impute to “No,” as we assume it was not checked when none applied
Vitals on admission		
Heart rate, bpm*	12.59	Multiple imputation
SBP, mmHg*	11.45	Multiple imputation
DBP, mmHg*	11.45	
BMI*	32.71	
LVEF groups	1.18	Recode category based on multiple imputed EF

EF source	1.18	
EF, % *	5.91	Multiple imputation
Lab measures		
Serum sodium, mEq/L *	33.38	Multiple imputation
BNP, pg/mL *	47.18	
NT-proBNP, pg/mL *	91.81	
Serum creatinine, mg/dL *	24.72	
BUN, mg/dL *	33.04	Multiple imputation
Discharge year of index hospitalization *	0	
LOS	0	
Transferred-in	6.21	Impute to "No"
Hospital characteristics		
Number of beds *	0.06	Impute to median
Geographic region	0	
Rural location	0	
Teaching status	0.24	Impute to "No," as we assume teaching hospitals are well identified in

Heart transplant site	10.66	GWTG-HF Registry Impute to “No,” as we assume hospitals capable of performing heart transplant are well identified in GWTG-HF Registry
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*Continuous variables

Shaded variables are model covariates.

BMI indicates body mass index; BNP, b-type natriuretic peptide; bpm, beats per minute; BUN, blood urea nitrogen; DSP, diastolic blood pressure; EF, ejection fraction; LOS, length of stay; LVEF, left ventricular ejection fraction; NT-proBNP, N-terminal pro B-type natriuretic peptide; SBP, systolic blood pressure; SES, socioeconomic status