Supplementary Online Content

Witberg G, Steinmetz T, Landes U, et al. Change in kidney function and 2-year mortality after transcatheter aortic valve replacement. *JAMA Netw Open*. 2021;4(3):e213296. doi:10.1001/jamanetworkopen.2021.3296

eFigure 1. Cohort Selection Process for Steady State and Periprocedural Analysis

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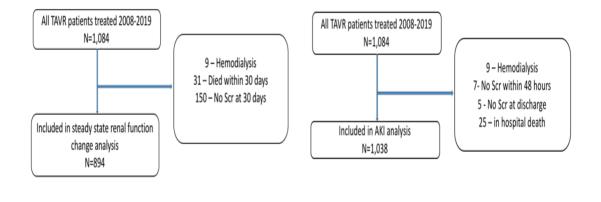
eTable 1. Periprocedural Complications According to Steady-State Change in eGFR Category

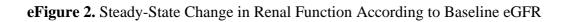
eTable 2. Periprocedural Complications According to AKI Category

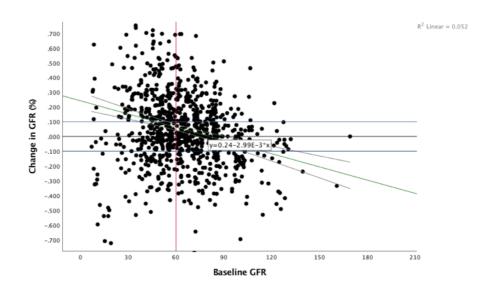
eTable 3. Predictors of Periprocedural/Steady-State Changes in eGFR Function After TAVI

This supplementary material has been provided by the authors to give readers additional information about their work.

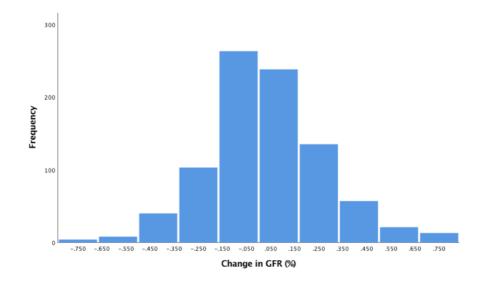
eFigure 1. Cohort Selection Process for Steady State and Periprocedural Analysis



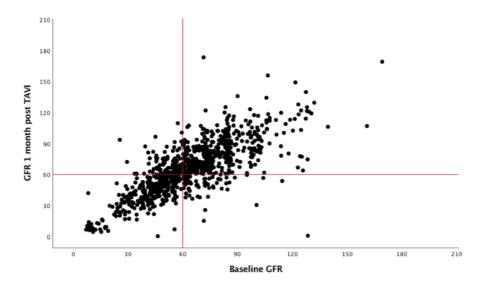




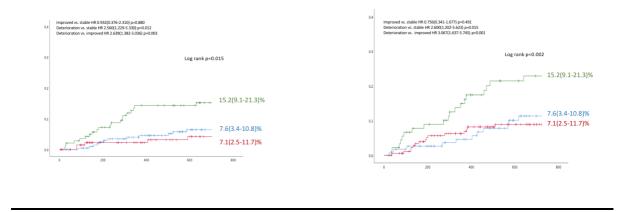
eFigure 3. Distribution of State Change in Renal Function After TAVR





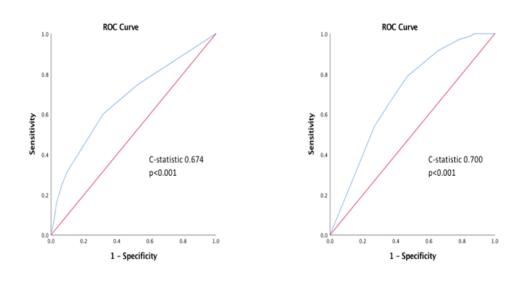


eFigure 5. Kaplan-Meier Curves for 2-Year Mortality According to Steady-State Changes in Renal Function^a



^aBaseline eGFR \geq 60 mL/min (left) and eGFR < 60 mL/min (right).

eFigure 6. ROC Curves for Prediction Models for Steady-State Renal Function Deterioration (left) and CKD Status Resolution After TAVR



	Stable GFR	GFR	GFR	P value
	N=332	improvement	deterioration	
		N=329	N=233	
Vascular				0.312
complications				
Minor	53(16.0%)	54(16.5%)	40(12.9%)	
Major	5(1.5%)	12(3.7%)	8(3.4%)	
Bleeding				0.17
complications				
Minor	8(1.4%)	14(4.3%)	6(2.6%)	
Major	4(1.2%)	7(2.1%)	3(1.3%)	
Life threatening	0(0%)	0(0%)	2(0.9%)	
Pacemaker	41(12.3%)	42(12.8%)	30(12.9%)	0.98
implantation				

eTable 1. Periprocedural Complications According to Steady-State Change in eGFR Category

eGFR=estimated glomerular filtration rate

eTable 2. Periprocedural Complications According to AKI Category

	No AKI	AKI	P value
	N=921	N=115	
Vascular complications			< 0.01
Minor	143(15.5%)	17(14.7%)	
Major	15(1.6%)	14(12.1%)	
Bleeding complications			< 0.01
Minor	9(1.0%)	3(2.6%)	
Major	16(1.7%)	4(3.5%)	
Life threatening	1(0.1%)	3(2.6%)	
Pacemaker implantation	111(12.1%)	20(17.3%)	0.14

AKI=acute kidney injury

eTable 3. Predictors of Periprocedural/Steady State-Changes in eGFR

Function After TAVI

	OR	95% CI	P value			
A AKI resolution						
No frailty	4.77	1.44-15.79	0.01			
Age<80	8.20	2.70-14.64	< 0.01			
B Steady state renal function deterioration						
STS	1.06	1.02-1.09	0.01			
STS>6	1.43	1.03-1.98	0.03			
GFR (per 1ml/min)	1.01	1.01-1.02	< 0.01			
GFR>75 ml/min	1.92	1.40-2.62	< 0.01			
AKI resolved at discharge	2.82	1.70-4.70	< 0.01			
AKI not resolved at	7.32	4.53-11.42	< 0.01			
discharge						
C Steady state renal function improvement						
Female	1.27	1.03-1.61	0.04			
GFR<60	2.28	1.73-3.01	< 0.01			
D Steady state CKD resolution						
STS	0.87	0.81-0.94	< 0.01			
STS<6	1.81	1.10-2.97	0.02			
LVEF	1.04	1.01-1.08	0.02			
LVEF>50%	2.15	1.11-4.18	0.02			
GFR	1.12	1.08-1.16	< 0.01			
GFR>45 ml/min	3.13	1.83-6.92	< 0.01			
Contrast/GFR	1.40	1.14-1.72	< 0.01			
Contrast/GFR<3.5	4.03	2.11-7.69	< 0.01			
No AKI at discharge	4.62	2.15-6.44	< 0.01			

AKI=acute kidney injury GFR=glomerular filtration rate LVEF=left ventricle ejection fraction STS=society of thoracic surgeons