

## Risk Prediction Model: Mitral TEER

A clinical prediction model was developed to predict a poor outcome (30-day death, stroke, heart failure readmission or no improvement in Kansas City Cardiomyopathy Questionnaire [KCCQ]) after mitral transcatheter edge-to-edge repair (TEER). The purpose of this model is to support patient counseling and decision-making.

### **Model summary:**

**Endpoints: 30-day procedure failure endpoint is a composite of the following:**

- 30-day death
- 30-day stroke
- 30-day heart failure readmission
- <10-point improvement in KCCQ overall summary (KCCQ-OS) score (from baseline to 30 days)

### **Variables:**

<b>Risk Factor</b>
Female
Atrial fibrillation or atrial flutter
Acuity of patient – assessed by procedure status or presence of any of the following prior to the procedure: cardiac arrest, shock, use of mechanical assist device or inotropes)
NYHA Class IV
Home oxygen
Presence of aortic stenosis
Hospital admission for heart failure within past year
Glomerular filtration rate
Dialysis
KCCQ (summary score)
Hemoglobin

### **Model discrimination:**

<b>C-Statistic in Training Sample (Internal)</b>	<b>C-Statistic in Validation Sample (External)</b>
0.688	0.681