# Comparison of Procedural Characteristics and Outcomes in Men versus Women Undergoing Mitral Edge to Edge Repair

## Disclosures


- There was no external funding for this study.


## Background

- Among patients undergoing mitral transcatheter edge to edge repair (M-TEER), there is paucity of data regarding sex differences.

## Methods

- We performed an observational study of 380 patients undergoing M-TEER at a single institution between (2014-2022).
- Baseline characteristics, procedural variables and outcomes were compared between men and women

## Results

- A total of 176 (46%) women and 204 (56%) men were treated with M-TEER during the study period.
- Women were older than men [W: median age 80 years (72-86) vs. M: 78 (69-84), p=0.055) but had less co-morbidities including diabetes (W:24% vs. M:38%, p=0.005), previous CABG surgery (W:15 % vs. M:30%, p=0.001), or an implantable cardioverter defibrillator (ICD) (W:16% vs. M:31%, p=0.001) resulting in similar STS scores (W:4.4 [2.1-9.4] vs. M:4.4 [2.7-6.9], p=0.812).
- Women had smaller left ventricular end-systolic (W: 3.7 ± 1.2 cm vs. M:4.6 ± 1.2 cm, p<0.001), diastolic dimensions (W:5.1 ± 0.9 vs. M:5.7 ± 1.0, p<0.001), and higher ejection fraction (W: 56% [38-61] vs. M: 44% [29-58], p<0.001] than men.
- There were no differences in MR severity or etiology (primary vs. secondary).
- Women required fewer devices (W:1 clip 78% vs. M:1 clip 61% p=0.002) and achieved similar rates of MR reduction (residual MR ≥ moderate W: 5%, M: 9%, p=0.126) but with higher residual gradients (W: 4 [3, 5] mmHg, M: 3 [2,4] mmHg, p=0.002).
- There were no differences in survival at discharge, 30-days, or 1-year. MACE (stroke, MI, all-cause mortality) did not differ between sexes at discharge, 30-days, or 1-year.

## Conclusions

- Women undergoing M-TEER achieved similar rates of MR reduction as men but with fewer clips and higher residual gradients.
- No sex differences were observed in clinical outcomes.

## Contributors


- First Author: Meghna Seshiah
- Coauthors: Christian Schmidt, MS, Joseph Choo, MD, Puvi Seshiah, MD, Dean Kereiakes, MD, Terri Stewart, MD, Odayme Quesada, MD, Jamie Jollis, MD
- Corresponding Author: Santiago Garcia, MD