

# Organic versus Functional Mitral regurgitation in patients undergoing TAVI

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# Background

Many patients undergoing Trans-catheter Valve Implantation.

TAVI for severe aortic stenosis (AS) have mitral regurgitation (MR).

The presence of MR affects the clinical outcome.

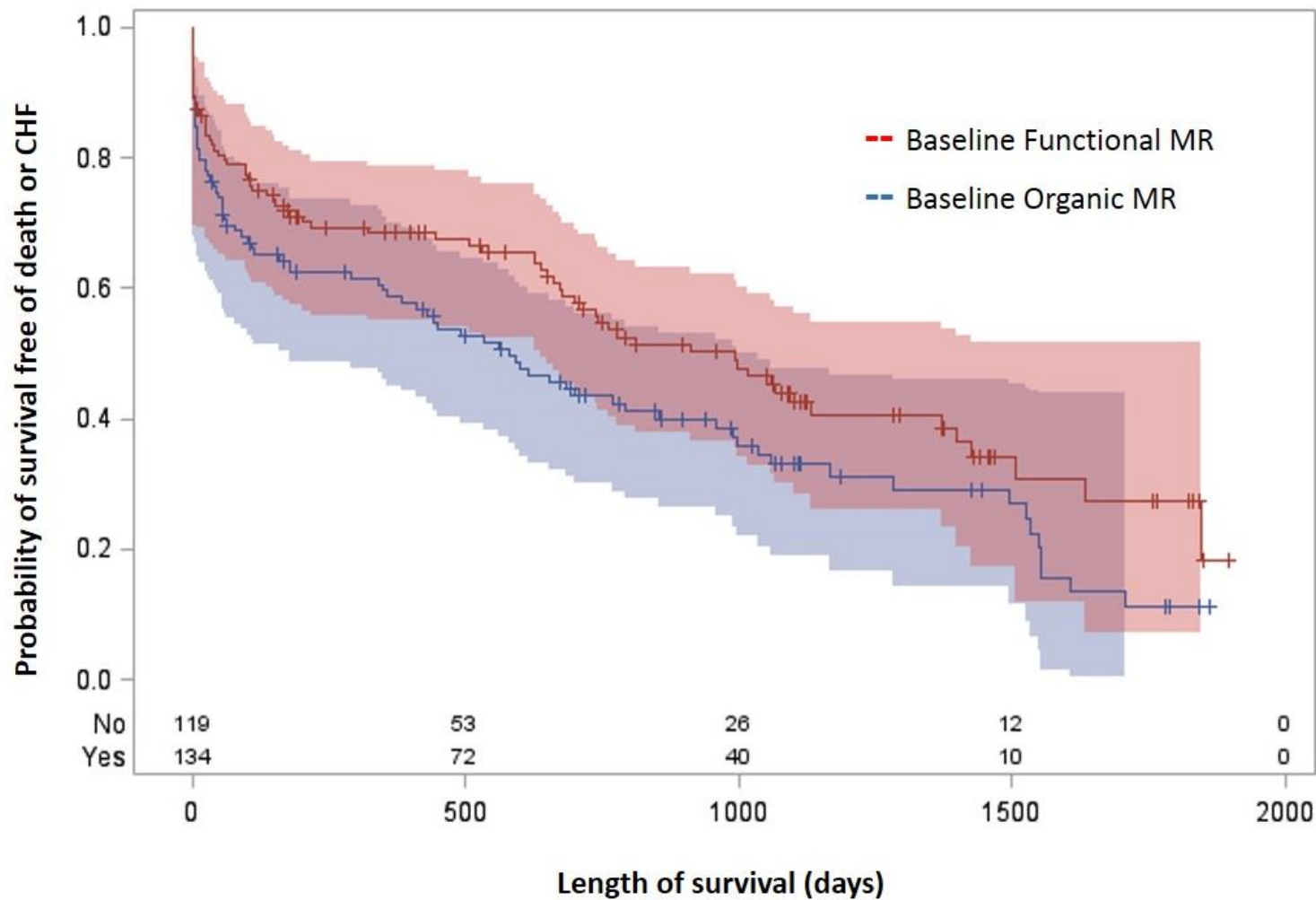
# Methods

- High risk or inoperable AS patients from 2007-2013
- Balloon or self-expanding TAVI for AS
- Hadassah and Emory Hospitals
- Echo was performed baseline and at 30 days
- MR was graded Organic or Functional
- Mild moderate or severe MR.

# Results

- 251 of 257 AS patients have MR
- Functional and Organic MR have the same baseline characteristics
- Functional MR patients had a significantly higher probability of survival free from death or CHF than Organic MR patients
- Multivariate analysis showed that functional MR, a balloon expandable valve and change in aortic gradient were protective against death and congestive heart failure
- Moderate-severe MR showed a significant decrease in 30 days pulmonary arterial

# Survival Free of Death or CHF



# Conclusions

- **TAVI patients with functional MR had better outcome than Organic MR patients.**
- **An evaluation of MR etiology during pre-procedure planning may have important impact on decision therapeutic making process.**