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SECONDARY MR WITH HF

THE CLINICIAN'S VIEW



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PRIMARY (organic) vs SECONDARY (functional) MR



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PRIMARY MR

- IT'S THE VALVE THAT MAKES THE HEART SICK



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SECONDARY MR

- IT'S THE HEART THAT MADE THE VALVE SICK (ALMOST ALL HAVE HF)



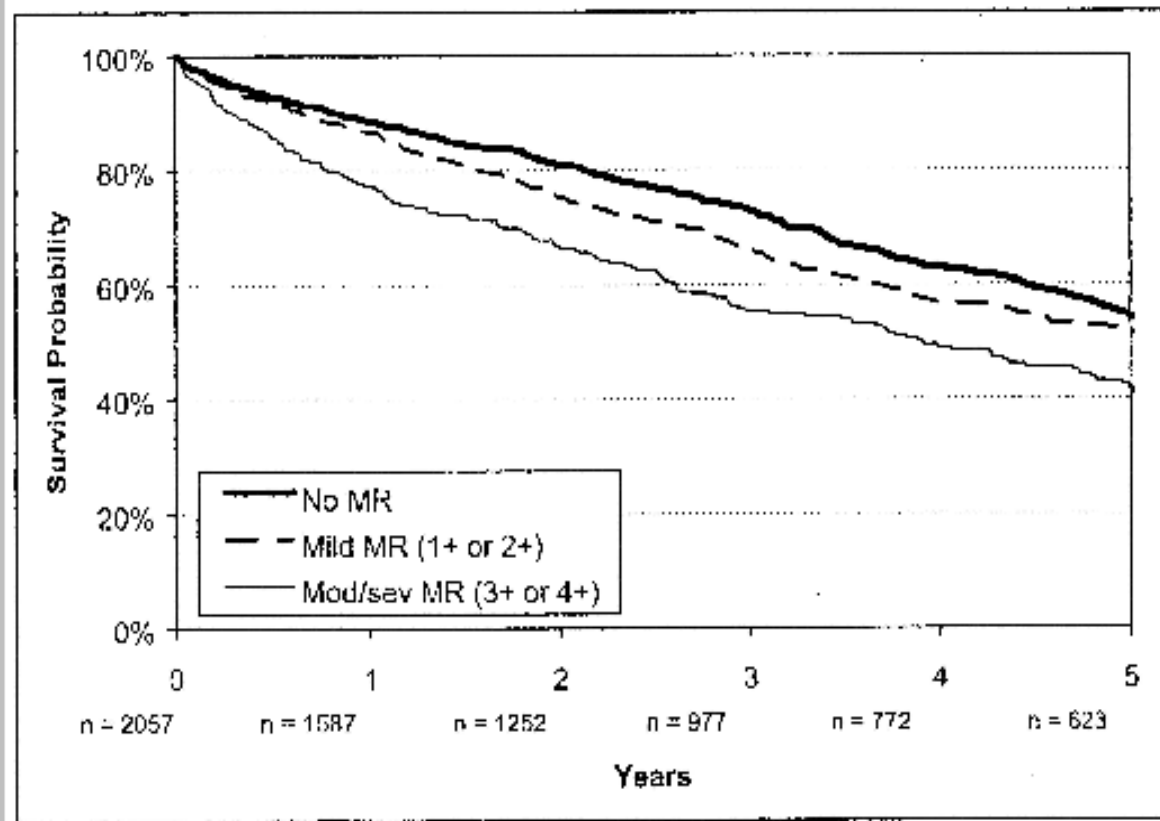
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WE KNOW

- MR IS ASSOCIATED WITH A WORSE PROGNOSIS



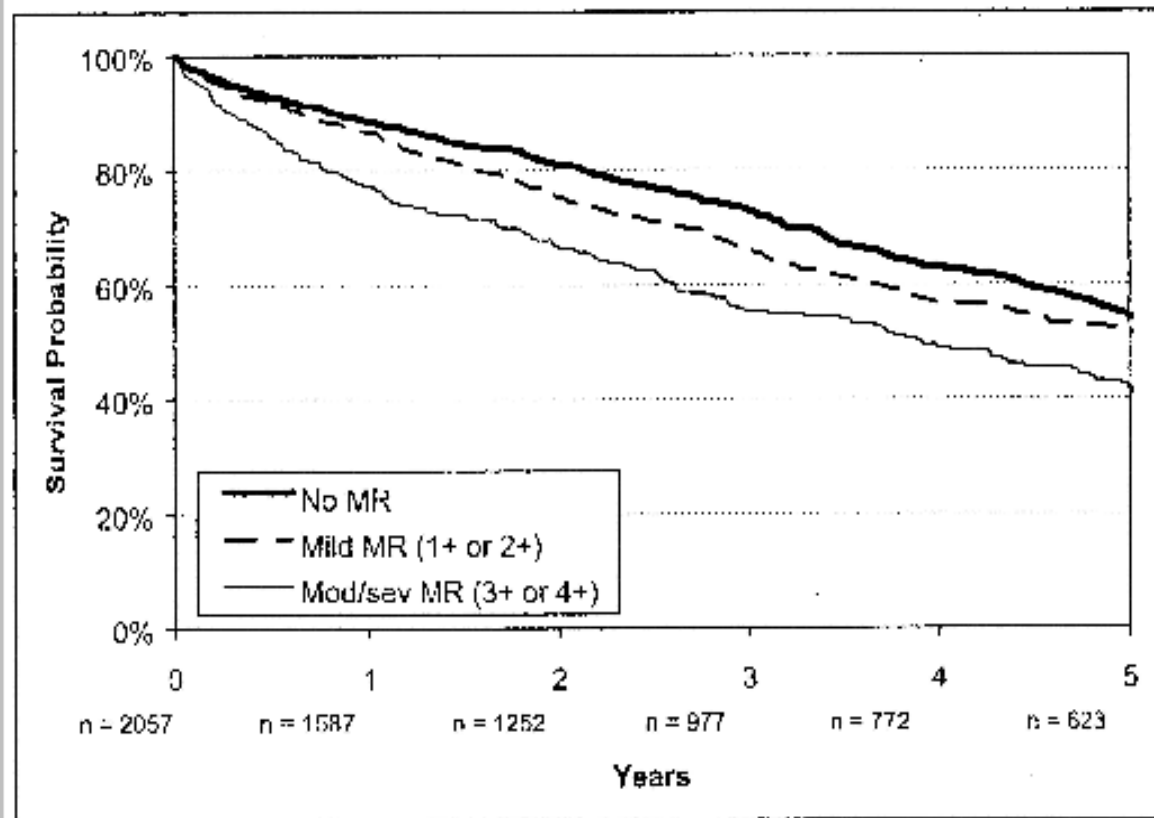
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Trichon et al AJC 2003



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EF 0.28

EF 0.25

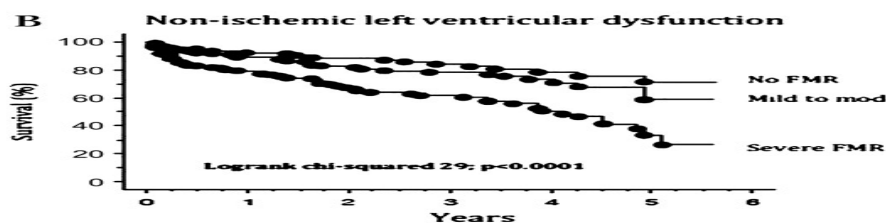
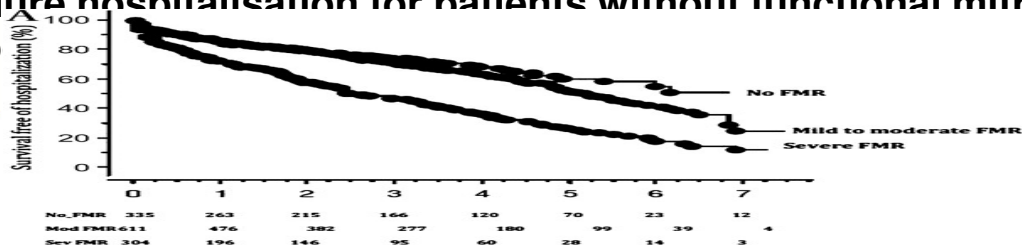
EF 0.24

Trichon et al AJC 2003

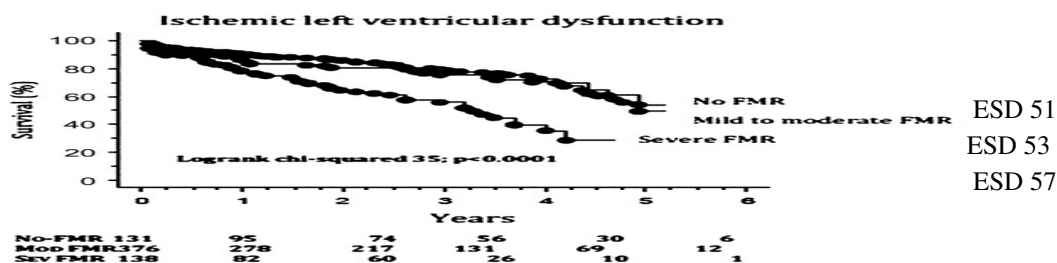


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(A) Kaplan–Meier plots showing time to the combined end point of all-cause mortality and heart failure hospitalisation for patients without functional mitral regurgitation (FMR), with plots showing time to all-cause mortality and time to all-cause mortality and heart failure hospitalisation for patients with mild to moderate FMR and severe FMR.



EF 0.34
EF 0.33
EF 0.27



ESD 51
ESD 53
ESD 57

Rossi A et al. Heart 2011;97:1675-1680

Heart



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IF MR IS THE CAUSE OF
THE WORSENE
PROGNOSIS, IT SHOULD BE
RELATIVEY EASY TO PROVE

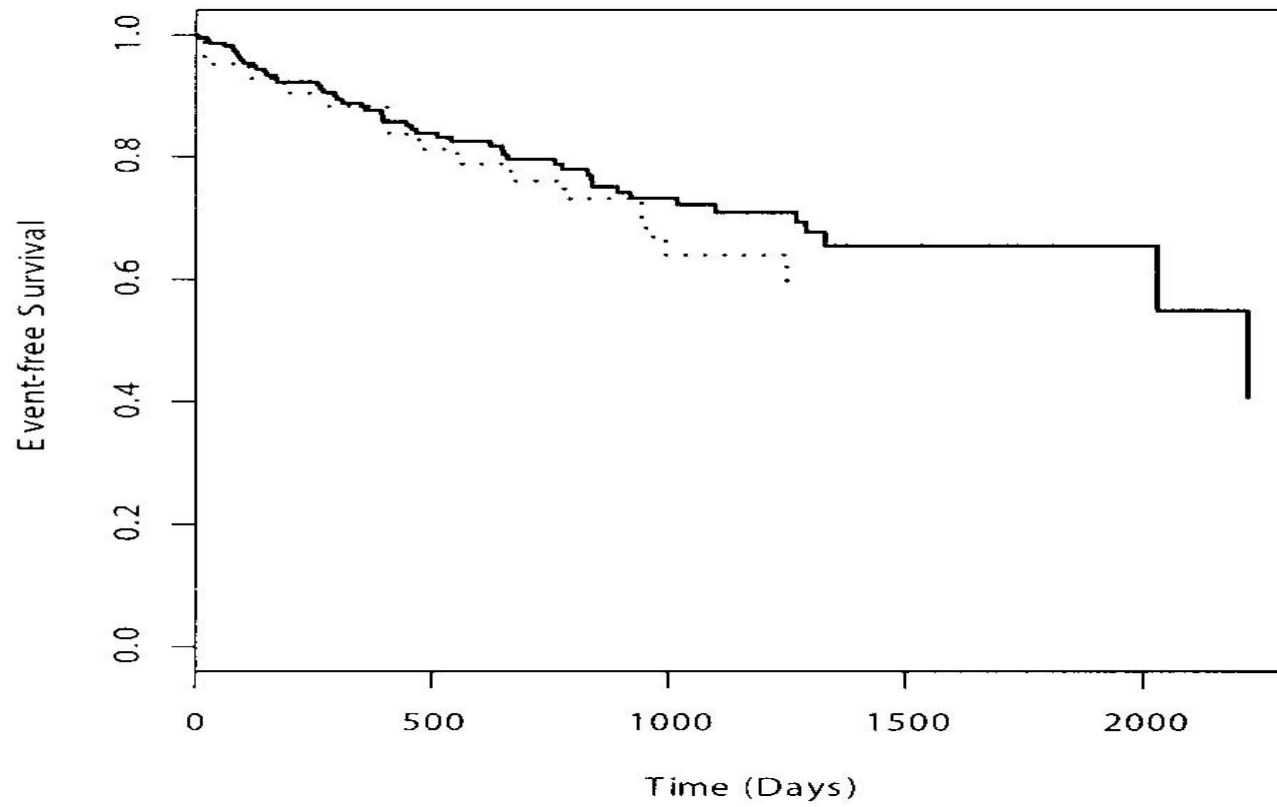


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- FIXING IT SHOULD MAKE YOU FEEL BETTER AND LIVE LONGER



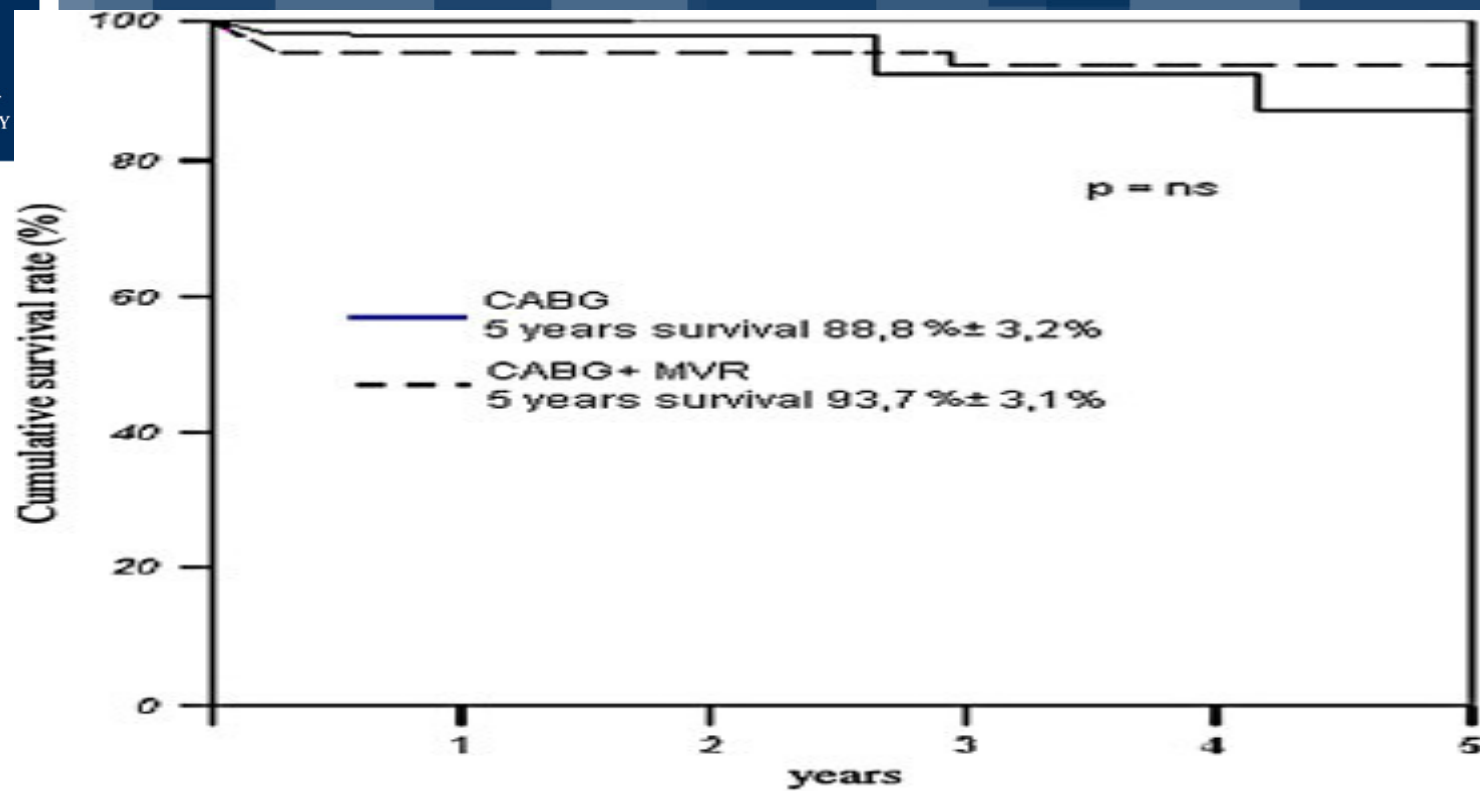
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WU et al IACC 2005



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FATTOUCH et al ;JTCVS 2009



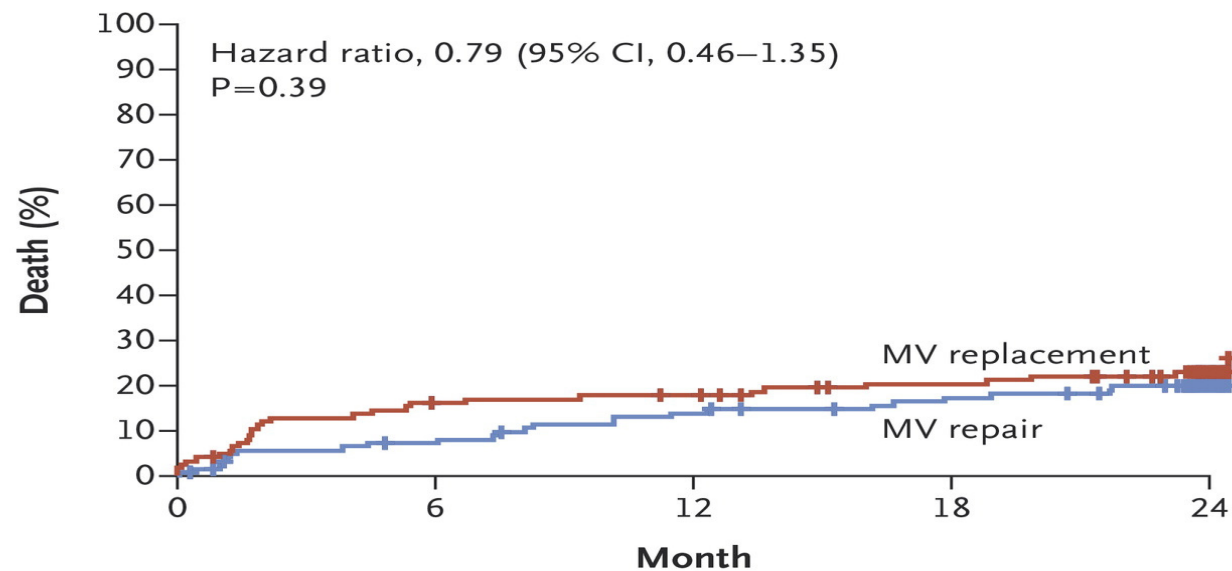
BENEDETTO et al

- META ANALYSIS 2749 Pts
- NO IMPROVEMENT IN SURVIVAL
- NO IMPROVEMENT IN NYHA CLASS
- LESS MR



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Time-to-Event Curves for Death.



No. at Risk

MV repair	126	113	104	97	64
MV replacement	125	103	100	92	65



WARNER STEVENSON AJC 1987

VASODILATORS AND DIURETICS

BASE

RX

EDV 390+/-130

301 +/- 126

TSV 74+/- 22

59+/- 20

FSV 37+/- 14

52+/- 14

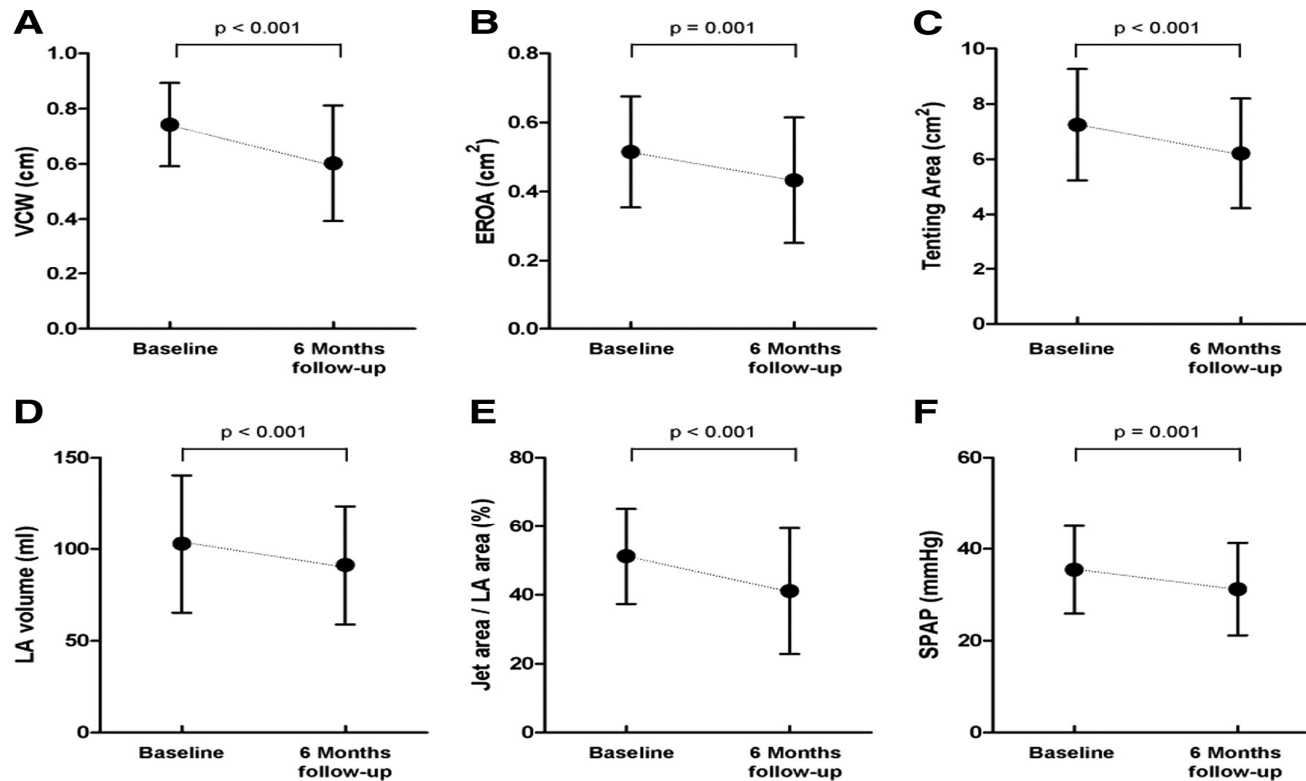
RF 0.45

0.04



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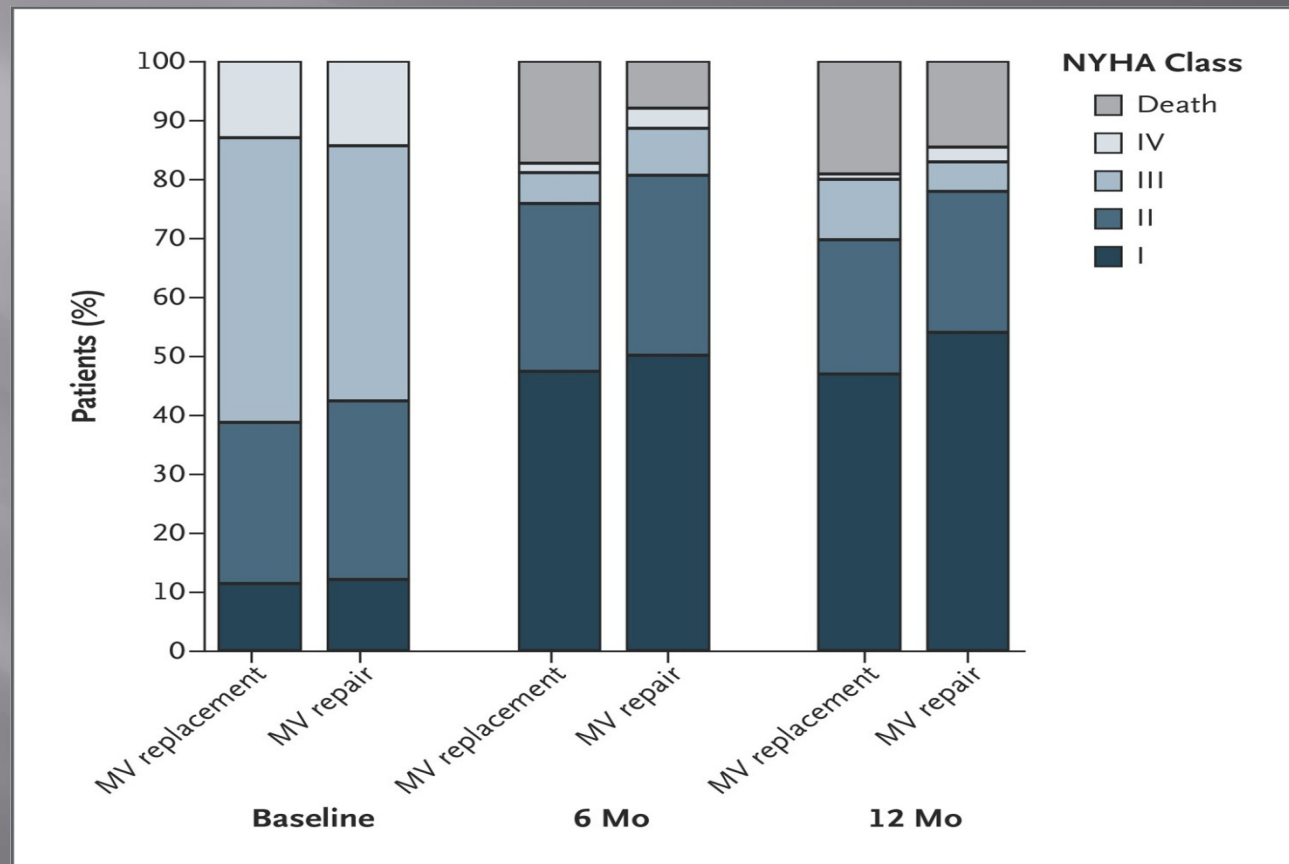
Changes in severity of MR at 6-month follow-up.



van Bommel R J et al. *Circulation*. 2011;124:912-919



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ACKER et al NEJ 2014



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AGGRESSIVE MEDICAL Rx

SURGERY 2b