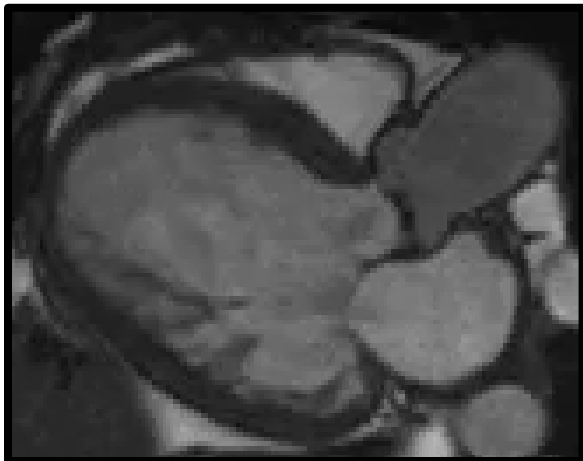
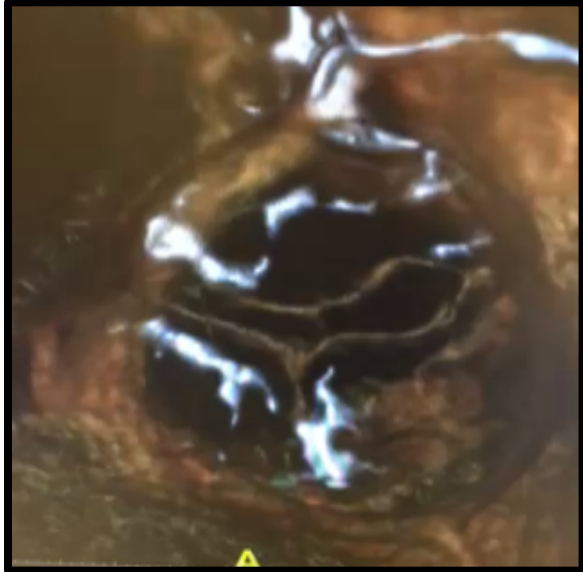




That this House believes AVR/TAVI should be **offered** without waiting for symptoms in severe AS.



Aortic Valve Replacement (AVR /TAVI)



When should we offer valve intervention?

Aortic stenosis progression

TOO EARLY

UNECESSARY EXPOSURE TO RISK OF:

- Complications of surgery / TAVI
- Living with a prosthetic valve
- Anticoagulation
- Repeat intervention for structural valve deterioration

*OPTIMAL
TIMING*

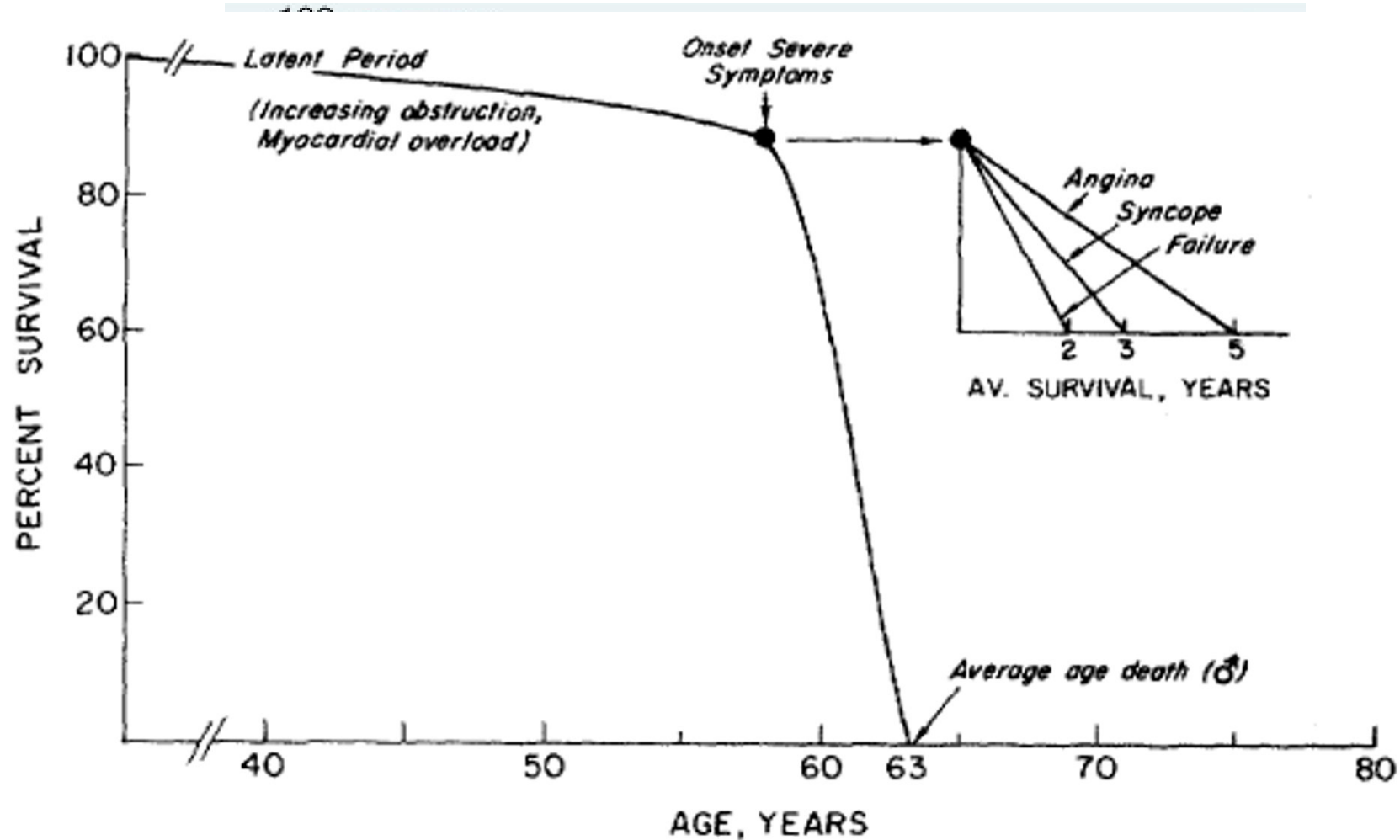
**JUST AS LEFT
VENTRICULAR
DECOMPENSATION
IS STARTING TO
DEVELOP**

TOO LATE

IRREVERSIBLE DAMAGE TO THE MYOCARDIUM:

- Sudden cardiac death
- Increased peri-operative risk
- Heart failure
- Hospital admissions
- Increased mortality
- Major financial burden

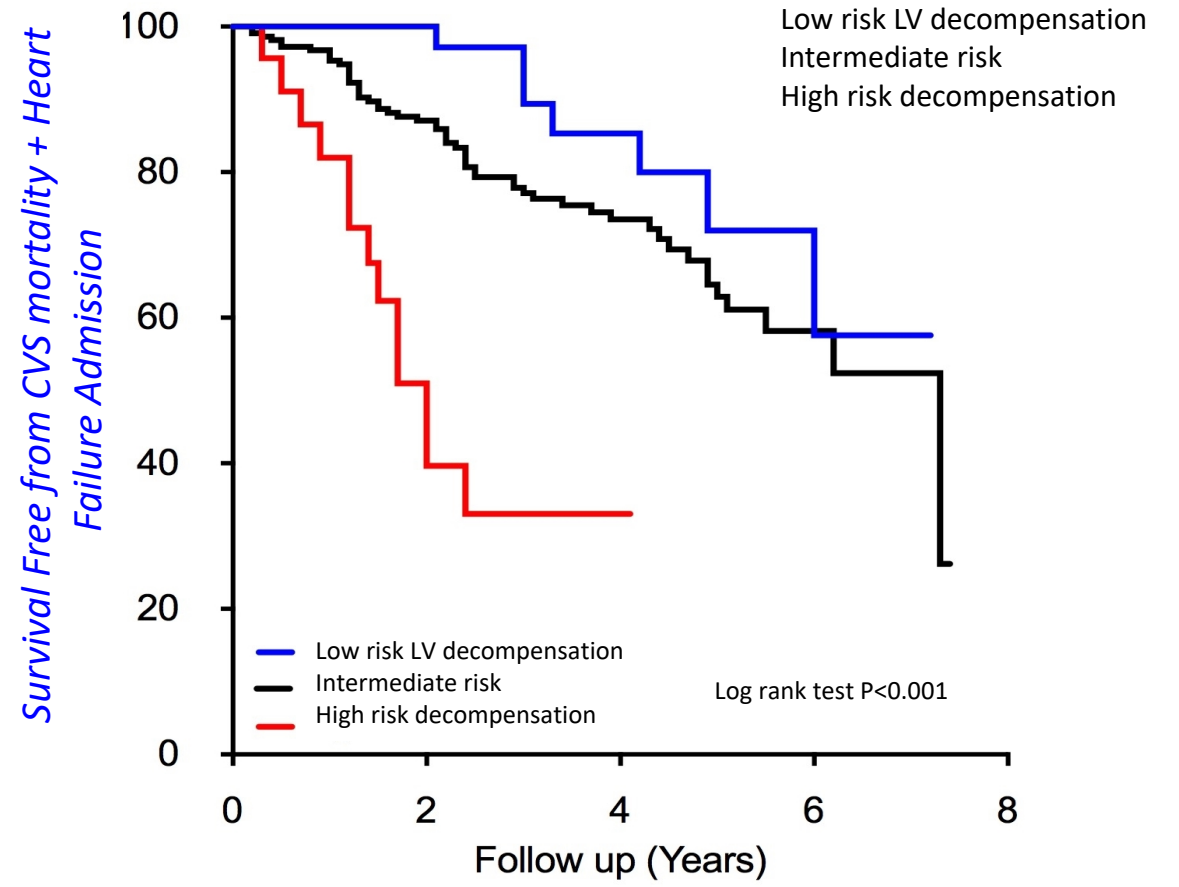
Symptoms & Aortic Stenosis



Despite AVR Patients with LV Decompensation Do Badly

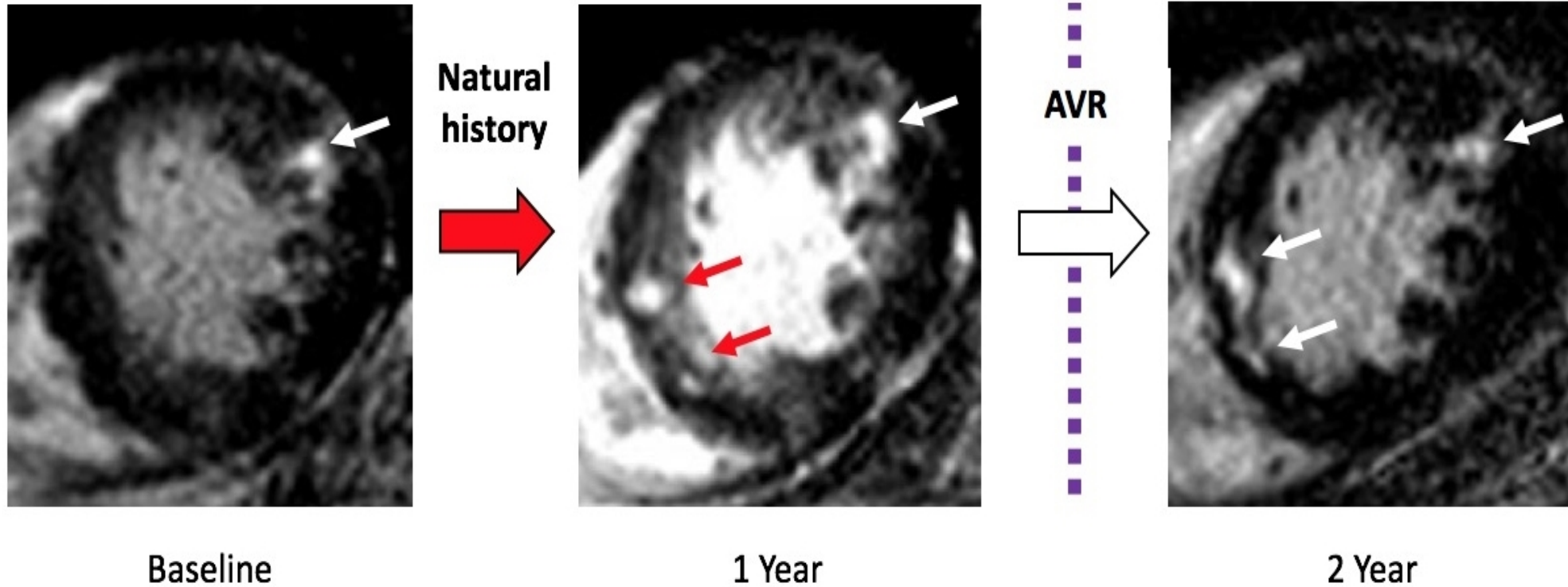


Kaplan-Meier Curve





Progresses with time and irreversible post-AVR



Mid Wall Fibrosis & Adverse Prognosis

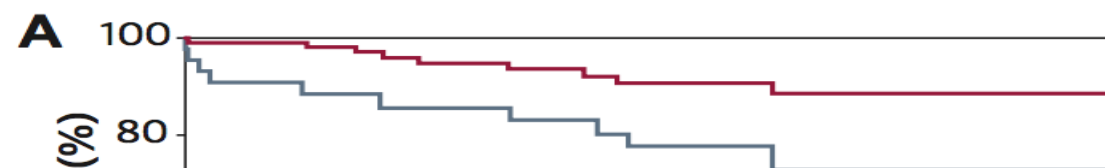


Numbers at risk

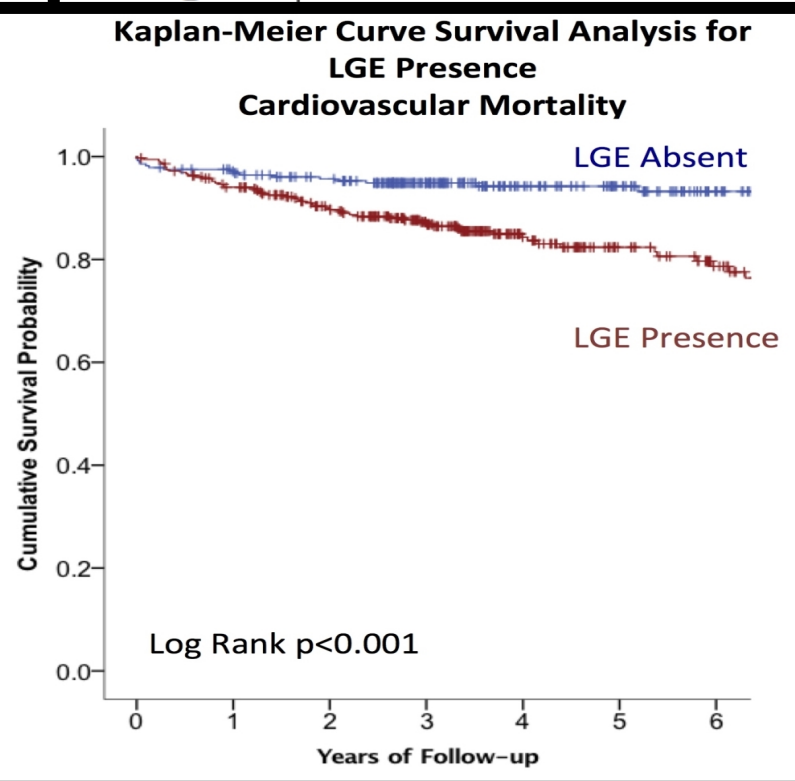
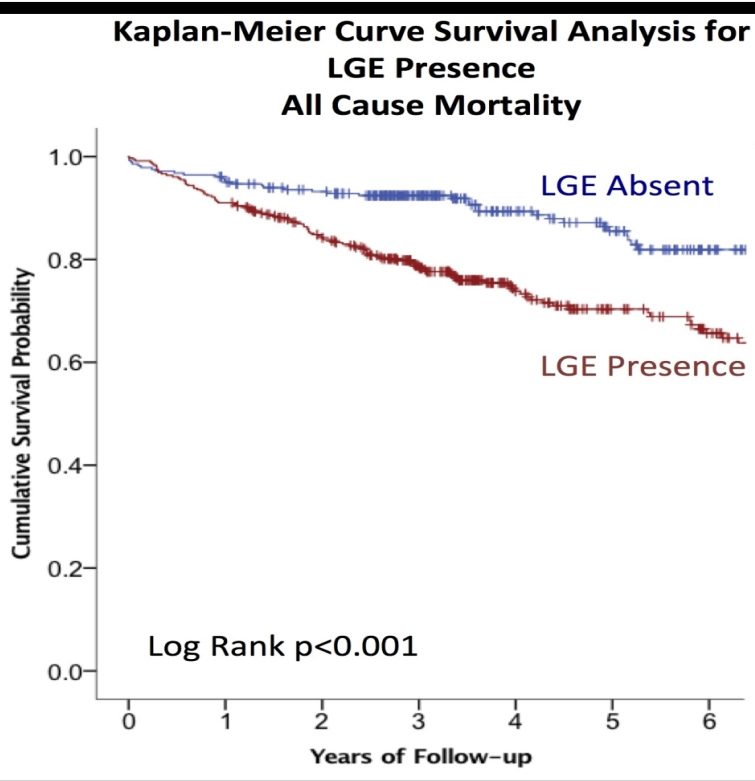
Infarct LGE	40
Mid-wall LGE	54
No LGE	49

Figure 4 Kaplan-Meier survival analysis of LGE for All Cause Mortality

Dweck JACC 2011



—	No LGE
—	LGE



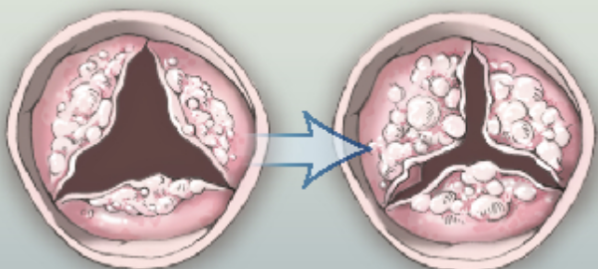
3	4	5
48	12	5
21	9	8

Vanhannu-Rochette JACC 2014

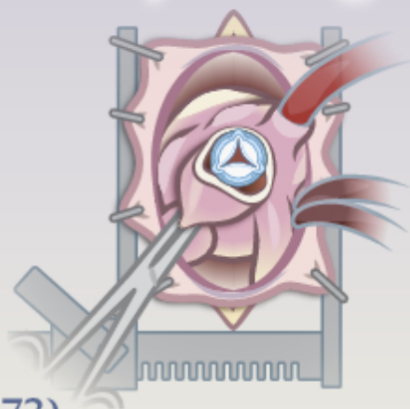
Early Surgery or Conservative Care for Aortic Stenosis

MULTICENTER, OPEN-LABEL, RANDOMIZED TRIAL

145 Asymptomatic Patients
with very severe aortic stenosis



Early Surgery



(N=73)

Conservative Care



Watchful waiting

(N=72)

Operative mortality or death from cardiovascular causes

At 4 yr
1%

At 8 yr
1%

At 4 yr
6%

At 8 yr
26%

HR, 0.09; 95% CI, 0.01–0.67; P=0.003

Early surgical intervention was associated with lower incidence of operative mortality or cardiovascular death



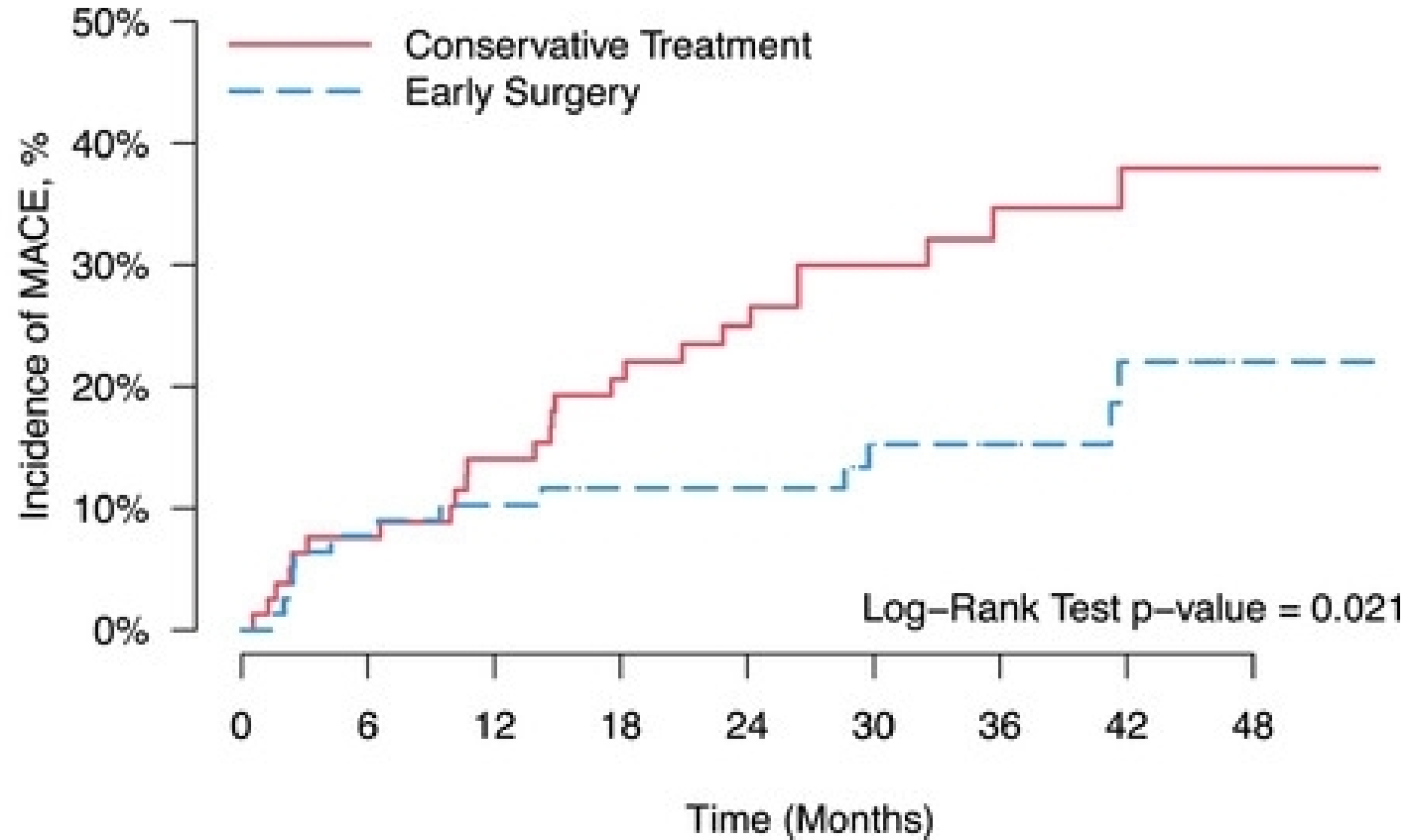
AVATAR TRIAL



-157 patients with severe asymptomatic AS

-Primary endpoint of death, MI, stroke, unplanned heart failure hospitalisation

-39 events: 13 in the early surgery and 26 in the watchful waiting group



	<i>Patients, n</i>									
<i>Conservative Treat.</i>	79	73	66	59	49	36	25	19	12	
<i>Early Surgery</i>	78	72	68	63	56	46	38	23	13	



On Going RCTs





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