

STRESS ECHOCARDIOGRAPHY: A VERY USEFUL TEST IN THE MANAGEMENT OF PATIENTS WITH MITRAL VALVE STENOSIS

O. De Diego Soler, E. Ferrer Sistach, N. Vallejo Camazón, J. Lopez-Ayerbe, A. Teis Soley, F. Gual Capllonch, S. Serrano Garcia, E. Bernal Labrador, G. Juncà Puig, A. Bayés-Genís - Germans Trias i Pujol Hospital, Cardiology, Badalona (Barcelona), Spain.

BACKGROUND

- easy.
- Stress echocardiography (SE) in these patients is an underused test.

AIM

(mitral stenosis).

BASELINE CHARACTERISTICS					
	Group A (negative SE) n = 4	Group B (positive SE) n = 11	Statistical signification		
Age	63 ± 10 years	62 ± 10 years	No statistical sign.		
Hipertension	50%	55%			
Atrial fibrillation	70%	74%			
Acenocumarol	60%	80%			
Beta-blockers	50%	63%			
Medium Gradient	4 mmHg	6 mmHg			
Mitral regurgitation	1.7	1.5			
LVEF	65%	64%			
PAP	34 mmHg	42 mmHg	p < 0.035		

FOLLOW-UP AT 6 MONTHS

Group A (negative SE)	Group B (Positive SE)	Statistical signification
0% intervention	63% intervention (7 patients)	p<0.024
		ρ < 0.02 +

- were implanted.
- No differences were observed in mortality at 6-months follow-up.
- \bullet changes in management in 93% of patients.

• Symptoms derived from mitral valve stenosis (MS) are sometimes equivocal and thus, indicating intervention in the appropriate moment (either percutaneous commisurotomy or surgery) is not

• Assess the clinical utility of stress echocardiography in the evaluation of patients with rheumatic MS

• Among the 7 patients of group B that underwent intervention, 3 received percutaneous commisurotomy, 1 patient received a biological prosthesis and in 3 patients mechanical prostheses

Stress Echocardiography settled indication for intervention in 53% of the patients and implied

METHODS

- SE was performed in 15 patients with clinically significant MS (mitral valve area (MVA) <1.5 cm2) which had not a previous formal indication for intervention.
- The result was considered positive if mean transvalvular gradient increase over 15 mmHg, systolic pulmonary pressure over 60 mmHg or symptoms were observed.

STRESS ECHOCARDIOGRAPHY RESULTS				
	Group A (negative SE) n=4	Group B (positive SE) n=11	Statistical signification	
Clinically +	0%	7%	p = 0.03	
Medium Gradient	8 mmHg	18 mmhg	p = 0.01	
PAP	51 mmHg	69 mmHg	p = 0.03	
Mitral regurg.	1.7	1.8		
LVEF	63%	65%	No statistical differences	
METS	5	5.3		



CONCLUSIONS

- Stress echocardiography is a useful test in the management of patients with clinically significant MS because it implies changes in management and in a high proportion indicates intervention.
- In patients with clinically significant MS, the presence of mild systolic pulmonary hypertension is the only factor that was related with a positive result in stress echocardiography.
- A negative results is strongly correlated with clinical stability and no need of interventionism. \bullet



