SUPPLEMENTAL MATERIAL

		Severe AS (AVA≤1.0 cm^2)	Mild to moderate AS	P-value
Number of patients		**199**	**90**	
Demographic and baseline data				
	Age (y)	69 ± 14	67 ± 13	0.15
	Male	110 (55)	67 (74)	0.002
	BMI (kg/m^2)	26 [23-30]	26 [24-30]	0.50
	SBP (mmHg)	130 [120-150]	140 [130-150]	0.06
	DBP (mmHg)	71 [69-80]	73 [70-80]	0.87
Medical history and risk factors				
	Diabetes mellitus	54 (27)	29 (32)	0.38
	Dyslipidemia	87 (44)	41 (46)	0.77
	Smoking	57 (29)	23 (26)	0.59
	Hypertension	118 (59)	67 (74)	0.013
	Coronary artery disease	75 (38)	33 (37)	0.87
	History of atrial fibrillation	45 (23)	13 (14)	0.11
	Charlson comorbidity index	1 [1-2]	2 [1-3]	0.36
Aortic valve				
	AVA (cm^2)	0.79 [0.65-0.90]	1.27 [1.13-1.37]	<0.0001
	Indexed AVA (cm^2/m^2)	0.40 [0.33-0.47]	0.65 [0.57-0.73]	<0.0001
	MPG (mmHg)	45 [36-56]	22 [18-31]	<0.0001
	Vmax (m/s)	4.2 [3.7-4.7]	3.04 [2.80-3.54]	<0.0001
	Aortic VTI (cm)	100 [81-119]	69 [59-82]	<0.0001
	Valvuloarterial impedance	4.6 [3.8-5.7]	3.6 [3.2-4.4]	<0.0001
	Stroke volume index (mL)	38 [31-46]	45 [38-50]	<0.0001
LV function				
	LVEF (%)	65 [58-71]	65 [60-69]	0.91
	LV Mass index (g/m^2)	107 [87-133]	109 [91-138]	0.38
Others				
	LA area (cm^2)	23±7	22±7	0.15
	sPAP (mmHg)	30 [23-37]	30 [27-35]	0.72

Table S1: Baseline Demographic, Clinical and Echocardiographic Parameters of the group of Patients with Mild to Moderate AS (1.0<AVA≤1.5 cm^2) compared with patients with severe Aortic Stenosis (AVA≤1.0 cm^2). AS Aortic Stenosis, LV left ventricle, AVA aortic valve area, MPG mean pressure gradient, VTI velocity time integral, LVEF left ventricular ejection fraction, LA left atrium, sPAP systolic pulmonary arterial pressure