

**Table 1:** Baseline demographic and clinical characteristics

	All patients n=175	Group 1 n=154	Group 2 n=21	p-Value
<b>Gender (female), n (%)</b>	68 (38.8)	58 (37.6)	10 (47.6)	0.4
<b>Age, years (mean±SD)</b>	81.2±8.2	81.2±8	80.6±0.6	0.8
<b>BMI, kg/m<sup>2</sup> (mean±SD)</b>	25.7±4.3	25.7±4.3	26.2±4.1	0.7
<b>Logistic EuroSCORE, % (mean±SD)</b>	17.8±5.2	18.8±6.3	16.6±7.8	0.7
<b>NYHA class ≥II, %</b>	100	100	100	1
<b>Class III, n (%)</b>	119 (68)	102 (66.3)	17 (81)	0.3
<b>Class IV, n (%)</b>	56 (32)	52 (33.7)	4 (19)	0.06
<b>CHF, n (%)</b>	140 (80)	126 (81.8)	14 (66.6)	0.1
<b>CAD, n (%)</b>	129 (73.7)	115 (74.6)	14 (66.6)	0.3
<b>Arterial hypertension, n (%)</b>	118 (67.4)	104 (67.5)	14 (66.6)	0.6
<b>Atrial fibrillation or flutter, n (%)</b>	101 (57.7)	90 (58.4)	11 (52.4)	0.4
<b>History of stroke, n (%)</b>	4 (2.3)	3 (1.9)	1 (4.8)	0.1
<b>PAD, n (%)</b>	21 (12)	18 (11.6)	3 (14.3)	0.7
<b>Diabetes mellitus, n (%)</b>	68 (38.8)	62 (40.3)	6 (28.5)	0.1
<b>Hyperlipidemia, n (%)</b>	69 (39.4)	62 (40.3)	7 (33.3)	0.5
<b>Smoking, n (%)</b>	42 (24)	37 (24)	5 (23.8)	0.5
<b>CKD, n (%)</b>	42 (24)	28 (18.8)	14 (66.6)	0.09
<b>NT-proBNP, pg/ml (mean±SD)</b>	4300.5±3165.5	4121.9±3955	6121.5±8864.7	0.1
<b>Heart rate, bpm (mean±SD)</b>	74.5±16.1	73.9±15.7	75.3±17.1	0.6
<b>Systolic blood pressure, mmHg (mean±SD)</b>	122.1±20	120.9±19.2	125.8±2.4	0.1
<b>Diastolic blood pressure, mmHg (mean±SD)</b>	71.6±11.4	71.7±11.4	72.1±1.4	0.7
<b>Medication</b>				
<b>Beta-blocker, n (%)</b>	136 (77.7)	120 (77.9)	16 (76.1)	0.3
<b>ACEI/ARB, n (%)</b>	113 (64.5)	95 (61.6)	18 (85.7)	0.09
<b>MRA, n (%)</b>	87 (49.7)	76 (49.3)	11 (52.3)	0.1
<b>Diuretics, n (%)</b>	160 (91)	142 (92.2)	18 (85.7)	0.1

ACEI: angiotensin-converting enzyme inhibitor; ARB: angiotensin-II receptor blocker; BMI: body mass index; CKD: chronic kidney disease; NYHA: New York Heart Association classification; CHF: chronic heart failure; CAD: coronary artery disease; PAD: periphery artery disease; NT pro-BNP: N terminal pro-brain natriuretic peptide; MRA: mineralocorticoid receptor antagonist.

**Table 2:** Baseline echocardiographic characteristics

	All patients n=175	Group 1 n=154	Group 2 n=21	p-Value
<b>LV-EDV, ml (mean±SD)</b>	164.7±68.3	166.6±66.1	149.7±86.1	0.4
<b>LV-ESV, ml (mean±SD)</b>	96.2±58.8	96.4±57.6	94.3±71.3	0.9
<b>LV-EF, % (mean±SD)</b>	44.7±16.3	44.9±16.5	42.9±15.5	0.7
<b>MV-MPG, mmHg (mean±SD)</b>	1.5±1.1	1.5±1	2.6±1.1	<b>0.001</b>
<b>MV geometry, mm (mean±SD)</b>				
<i>AP-diameter</i>	37.3±0.5	37.3±0.5	37.5±0.5	0.9
<i>SL-diameter</i>	39.6±6.9	39.9±6.9	39.2±5.9	0.9
<b>Mitral regurgitation</b>	3.1±0.5	3.1 ± 0.5	3.1 ± 0.5	0.8
<i>Grade III, n (%)</i>	136 (77.7)	121 (78.6)	15 (71.4)	0.8
<i>Grade IV, n (%)</i>	39 (22.2)	33 (21.4)	6 (28.6)	0.6
<b>Etiology of MR</b>				
<i>Functional MR, n (%)</i>	75 (42.8)	67 (43.5)	8 (38)	0.2
<i>Degenerative MR, n (%)</i>	70 (40)	60 (39)	10 (47.7)	0.1
<i>Mixed MR, n (%)</i>	30 (17.2)	27 (18)	3 (14.3)	0.1
<b>MR-PISA, cm (mean±SD)</b>	0.8±0.2	0.8 ± 0.2	0.7± 0.2	0.2
<b>MR-VC, cm (mean±SD)</b>	0.8±1.2	0.8±1.3	0.8± 0.2	0.8
<b>MR-EROA, cm<sup>2</sup> (mean±SD)</b>	0.5±0.3	0.5 ± 0.3	0.5 ± 0.1	0.6
<b>MR-RegVol, ml (mean±SD)</b>	51.1±19.7	50.3 ± 20	57.3 ± 17.2	0.3
<b>AP-diameter, mm (mean±SD)</b>	37.4±0.5	37.3± 0.5	37.5± 0.5	0.9
<b>SL-diameter, mm (mean±SD)</b>	39.6±7.1	39.9±6.9	39.2±5.9	0.9

<b>AML, mm</b> (mean±SD)	27.9±0.5	28.1±0.5	27.6±0.5	0.3
<b>PML, mm</b> (mean±SD)	16.3±0.4	16±0.4	16.8±0.4	0.1
<b>LAI</b> (mean±SD)	1.19±0.1	1.18±0.1	1.19±0.1	0.8
<b>RVSP, mmHg</b> (mean±SD)	45.4±14.8	45.5±14.6	44.6±16.3	0.8

AML: anterior mitral leaflet; AP: anteroposterior; EROA: effective regurgitant orifice area; LAI: leaflet-to-annulus index; LV-EDV: left-ventricular end-diastolic volume; LV-ESV: left-ventricular end-systolic volume; LV-EF: left-ventricular ejection fraction; PISA: proximal isovelocity surface area, PML: posterior mitral leaflet; RVSP: right-ventricular systolic pressure; SL: septolateral; VC: Vena contracta; RegVol: regurgitation volume; MR: mitral regurgitation; MV: mitral valve.

**Table 3:** Clinical and echocardiographic outcomes at six-months FU  
(the parameter referred to the survived patients at six-month-FU, therefore table 2 and 3 show different values for baseline parameters)

	Baseline	Follow-Up	p-Value
<b>NYHA class</b> (mean±SD)			
Group 1 (n=146):	3.2±0.4	1.6±1.1	0.041
Group 2 (n=14):	3.5±0.7	2.5±0.7	0.1

<b>6-MWT, m</b> (mean±SD)			
Group 1 (n=146):	252.2 ±127.8	348.3±80.7	0.05
Group 2 (n=14):	210.8±46.5	223.3±25.8	0.3
<b>NT-proBNP, pg/ml</b> (mean±SD)			
Group 1 (n=146):	5043.4±4039.1	4145.9±3352.1	0.3
Group 2 (n=14):	5389.5±1068.4	9121.5±8864.8	0.6
<b>LV-EDV, ml</b> (mean±SD)			
Group 1 (n=146):	132.1±55.5	119.2±18.9	0.6
Group 2 (n=14):	127.8±47.3	116.5±26.4	0.3
<b>LV-ESV, ml</b> (mean±SD)			
Group 1 (n=146):	73.4±46.4	60.7±28.5	0.4
Group 2 (n=14):	56.2±34.5	51.6±20.2	0.5
<b>LV-EF, %</b> (mean±SD)			
Group 1 (n=146):	47.3±14.7	50.7±16.2	0.5
Group 2 (n=14):	48.1±12.2	48.4±9.7	0.9
<b>Residual MR&lt; 3+, %</b>			
Group 1 (n=146):	9	98	<0.001
Group 2 (n=14):	6	94	<0.001
<b>MV-MPG, mmHg</b> (mean±SD)			
Group 1 (n=146):	2±1.5	3.6±2.7	0.18
Group 2 (n=14):	1.5±0.9	4.8±4.5	0.02
<b>RVSP, mmHg</b> (mean±SD)			
Group 1 (n=146):	44.6±11.3	33.3±4.2	0.016
Group 2 (n=14):	49.4±18.3	45.6±18.7	0.5

LVEDV: left-ventricular end-diastolic volume; LVESV: left-ventricular end-systolic volume; LVEF: left-ventricular ejection fraction; MR: mitral regurgitation; NT pro-BNP: N terminal pro brain natriuretic peptide; RVSP: right-ventricular systolic pressure; 6-MWT: six-minute walking test.

**Table 4:** Multivariate analysis of predictors of 12-month mortality

Parameters	OR	95% CI	p-Value
<b>Intraprocedural MPG</b>	1.70	0.95 to 3.05	0.05

<b>MPG at discharge</b>	0.81	0.51 to 1.27	0.36
<b>MPG at FU</b>	1.43	0.82 to 2.50	0.120
<b>Residual MR&gt;II at discharge</b>	6.46	0.43 to 95.23	0.17
<b>Recurrent MR&gt;II at FU</b>	0.34	0.02 to 5.36	0.44

**Supplementary Table 1:** Predictors for adverse functional outcome

**A:** Predictive values of MPGs assessed by the ROC analysis

MPGs	Cut-off	AUC	95% CI	Sensitivity, %	Specificity, %	p-Value
<b>Intraprocedural MPG</b>	3.9	0.751	0.646 to 0.829	63.9	80	<0.0001
<b>MPG at discharge</b>	4.9	0.553	0.434 to 0.667	32	86.27	0.48

<b>MPG at FU</b>	2.6	0.745	0.603 to 0.855	100	40	0.0005
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**B:** Comparison of outcome-predicting parameters by the multivariate regression analysis concerning functional outcomes

Parameters	OR	95% CI	p-Value
<b>Intraprocedural MPG</b>	1.96	1.02 to 3.75	0.04
<b>MPG at discharge</b>	0.96	0.60 to 1.53	0.86
<b>MPG at FU</b>	1.56	0.85 to 2.86	0.14
<b>Residual MR&gt;II at discharge</b>	1.34	0.56 to 3.12	0.20
<b>Recurrent MR&gt;II at FU</b>	1.64	0.98 to 4.01	0.09