Baseline Demographics and Co-morbidities

	N=´
Age (mean)	67,
Gender, males	8
NYHA III-IV	2
CCS	1 (0
Previous HF hosp. < 6 months	7
History of CAD	8
Previous STEMI	5
Previous cardiovascular surgery	4 (0
Previous stroke	1
Hypertension	7
Diabetes mellitus	5
Dyslipedmia	10
COPD	3
Moderate-severe renal failure (GFR ≤ 59)	7
Previous cancer	1

0 6 class II) only CABGs) **Mitral regurgitation** etiology was FUNCTIONAL in ALL patients

Baseline echocardiografic parameters

	N=10
Ejection fraction % (mean)	26,8%
LVES volume (ml, mean)	171
LVED volume (ml, mean)	237
LA volume (ml, mean)	129
Mitral regurgitantion severity	
3+/4+	1 pt
4+/4+	9 pts
PISA radium (mm, mean)	9
EROA (cm², mean)	0,56
Mitral valve anulus (mm, mean)	43
Mitral valve area (cm ² , mean)	5,3
Coaptation depth ETE (mm ,mean)	10,7
Coaptation lenght ETE (mm, mean)	3,35
PAPs exstimated (mmHg, mean)	49
PAPs exstimated \geq 55 mmHg (nr.)	5

Baseline EKG characteristics

Synus rythm P wave duration Complete LBBB QRS duration (mean) Signs of LVH Pathological Q waves

ATRIAL FIBRILLATION Paroxysmal n=4 Persistent n=1 Permanent n=3

Implantable devices

Pace maker only 1 pt

ICD only 5 pts

CRT-D 3 pts

Risk stratification

Logistic EuroSCORE (mean) 26,88 (4 patients < 20)

Addictive EuroSCORE (mean) 10,6

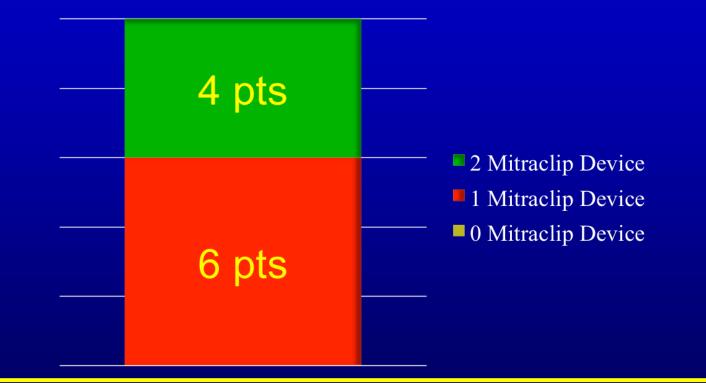
EuroSCORE II (mean) 14,52

STS Score (mean) 18,23

Procedure-related datas		
Vein puncture-Interatrial Septum (IAS) puncture time (mean)	42.2 min	
Vein puncture – 1 st clip opening time	114.5 min	
IAS puncture – 1 st clip opening time	71.3 min	
1 st clip opening - 1 st clip release time	42.9 min	
Mean procedural time	3 h 21 min	
1 clip positioning	3 h 9 min	
2 clips positioning	3 h 40 min	
DAP fluoroscopy	215,58 Gy*cm ²	
DAP fluorography	2,67 Gy*cm ²	
DAP total	218,26 Gy*cm ²	

Mitraclip success implant rate

At least 1 clip was successfully implanted in all 10 patients



In one case a chordal rupture with consequent massive mitral regurgitation occurred during device positioning, solved with clip implantation (mild MR left).

Periprocedure mitral regurgitation grade 100% 80% **MR** 1+ 60% MR 2+

40% - MR 3 + MR 4 + 20% - MR 4 + Baseline Post-procedure

Mean transvalvular anterograde gradient after device implantation was 3,05 mmHg

In-hospital complications

	N=10
Death	0
Stroke/TIA	0
Reoperation of mitral valve	0
CV surgery	0
Myocardial infarction	0
Inotropes post-operation	6
Reintubation	0
Bleeding/transfusions	1
Ventricular tachycardia	1
Acute renal injury	1
Angina	1
Paroxysmal atrial fibrillation (peri-procedure)	2
Pneumonia	1

Hospitalization datas

N=9

ICU stay (days, mean)	6,9
Post-operative period (days, mean)	7,9
Total hospitalization (days, mean)	15,3

3 patients were discharged at home, 6 was transferred for a cardiological rehabilitation period.

Events at follow-up

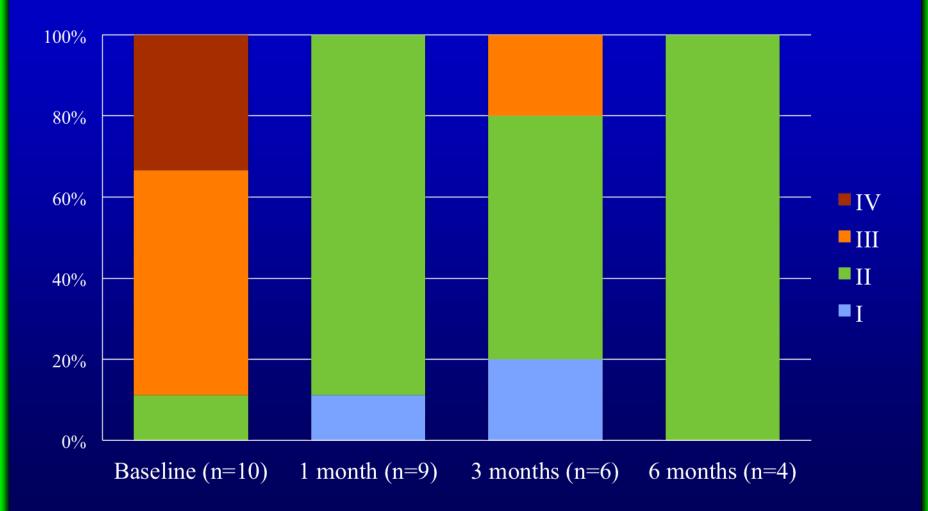
1 month follow-up for 9 patients 6 months follow-up for 4 patients

- 2 patients died
- 1 during an hospitalization for heart failure 74 days after clip implantation
- 1 because of road accident (not clearly known cause) 71 days after intervention

We registered 1 cardiac hospitalization for worsening heart failure (at two months)

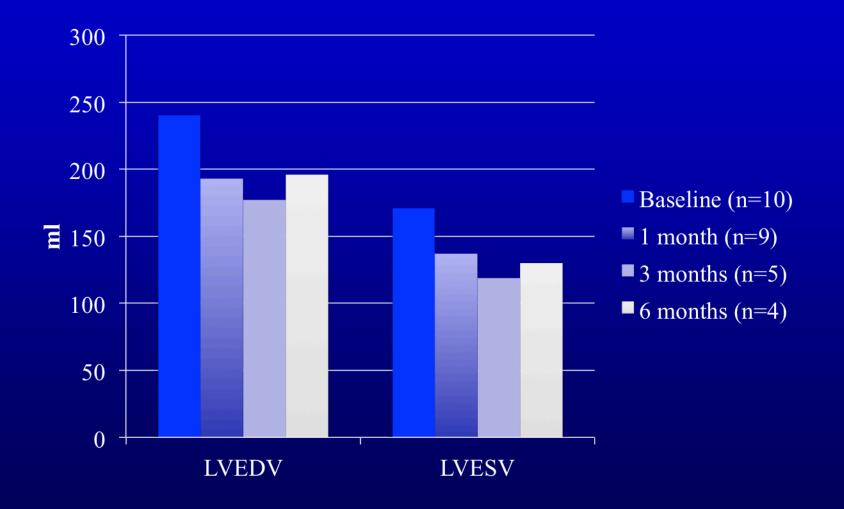
1 non cardiac hospitalization (acute colecistitis)

NYHA functional class – follow up

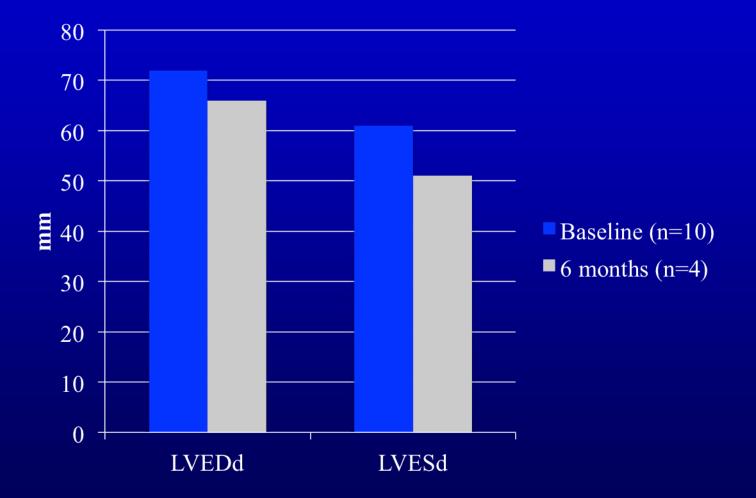


Mitral regurgitation grade – follow up 100% 80% 60% 4+ 3+ -2+40% 1+ 20% 0% 1 month (n=9) Baseline (n=10) 3 months (n=6)6 months (n=4)

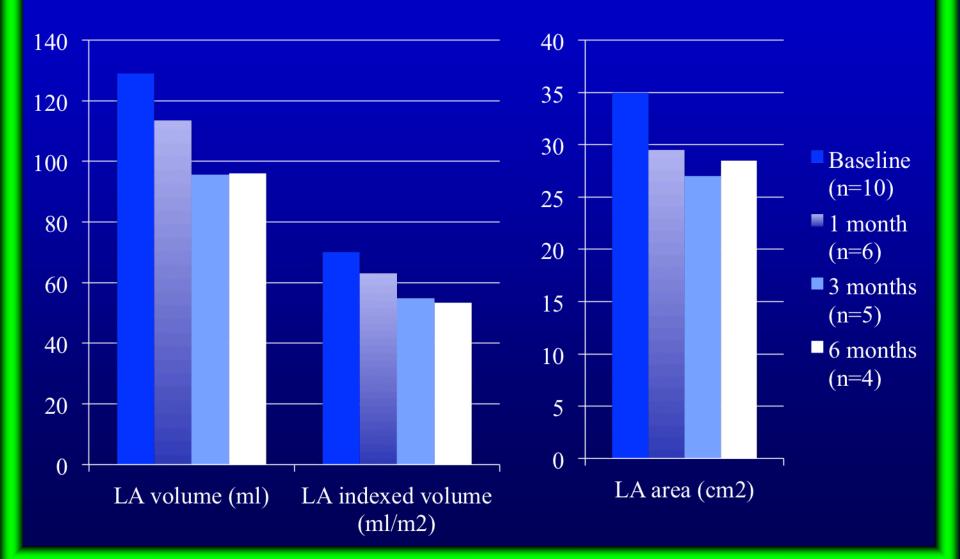
LVED and LVES volumes – follow up



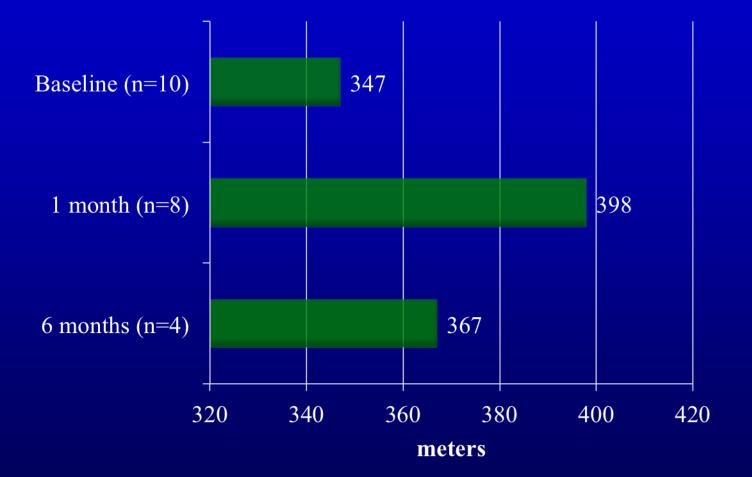
LVED and LVES diameters – follow up



Left atrium dimensions – follow up

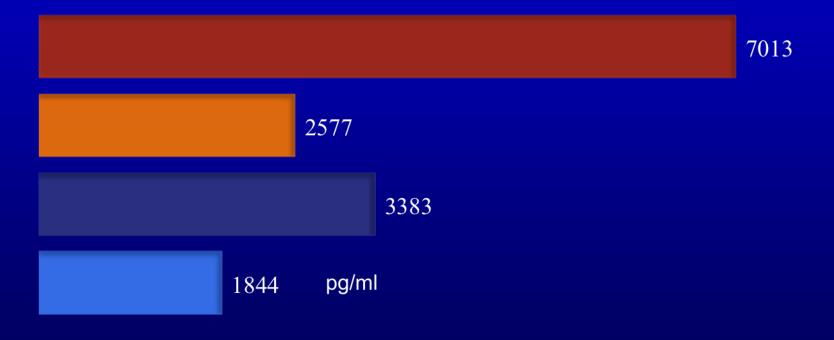


Six-minute walk test



NTproBNP levels

Baseline (n=10) 1 month (n=5) 3 months (n=5) 6 months (n=3)



Medical therapy – diuretic dose at follow up

