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October
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GIORNATE CARDIOLOGICHE **TORINESI**



Patient(s) with advanced HF and severe Mitral Regurgitation

Simone Frea

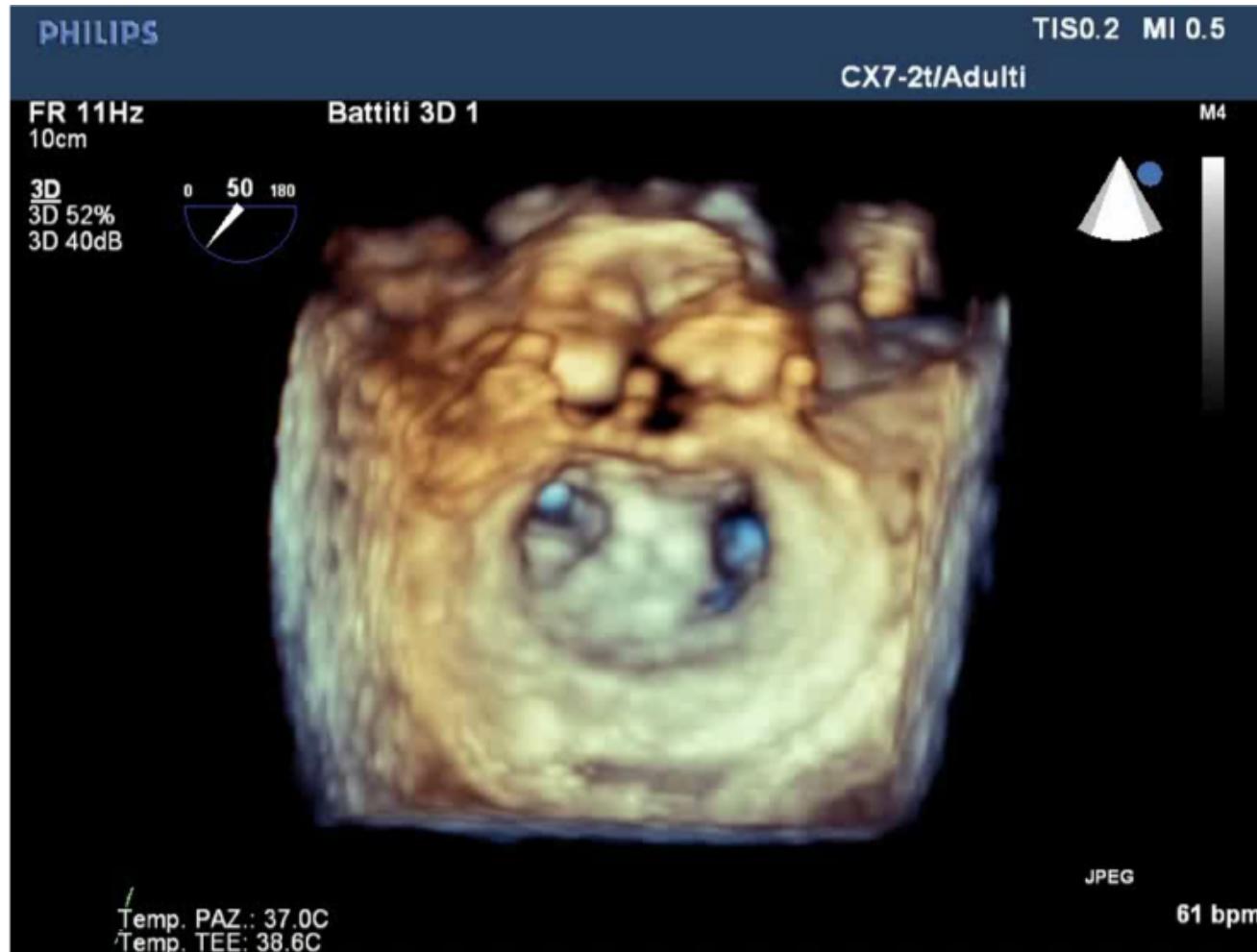
ICCU - Cardiology - AOU Città della Salute e della
Scienza
Turin

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Predictors of clinical outcomes after edge-to-edge percutaneous mitral valve repair

Davide Capodanno, MD, PhD,^{a,e} Marianna Maria Luisa Laudisa, MD,^d Stefano Cannata, Francesco Bedogni, MD,^d Anna Sonia Petroi, Carmelo Grasso, MD^a, on behalf of the GRA

Table IV. Predictors of all-cause death or rehospitalization for heart failure

	Univariate analysis			Multivariate analysis		
	HR	95% CI	P	HR	95% CI	P
EuroSCORE >5%	2.17	1.38-3.41	.001	1.06	0.63-1.79	.821
Diabetes	1.77	1.16-2.72	.008	1.30	0.79-2.14	.294
Prior MI	1.74	1.14-2.66	.011			
Shock	3.02	1.45-6.30	.003	1.05	0.34-3.23	.938
NYHA IV	2.04	1.62-3.30	.004	2.50	1.45-4.31	.001
MR ischemic etiology	2.01	1.31-3.09	.001	2.52	1.55-4.11	<.001
LVEF <30%	1.55	1.01-2.40	.048			
LVEDV >160 mL	1.73	1.11-2.70	.016			
LVESV >110 mL	1.86	1.20-2.90	.006	1.86	1.15-2.99	.011
LAA >30 mm ²	1.81	1.13-2.90	.014			
Acute procedural success	0.30	0.14-0.66	.003	0.24	0.95-0.61	.003
Inhospital stay ≥15 d	1.07	1.03-1.11	.001	1.37	0.41-4.56	.603

Abbreviations: *MI*, Myocardial infarction; *NYHA*, New York Heart Association; *MR*, mitral regurgitation; *LVEF*, Left ventricle ejection fraction; *LVEDV*, left ventricle end-diastolic volume; *LVESV*, left ventricle end-systolic volume; *LAA*, left atrium area.

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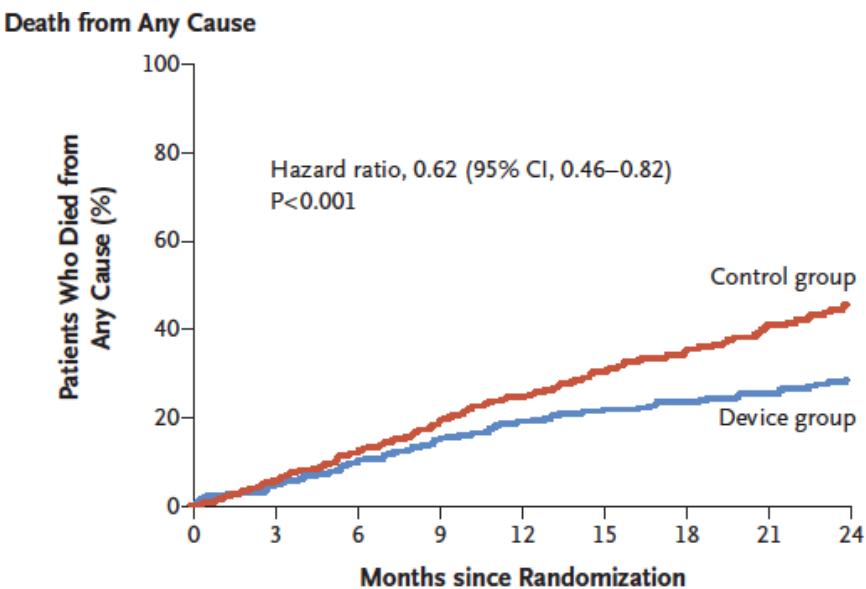
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Transcatheter Mitral-Valve Repair in Patients with Heart Failure

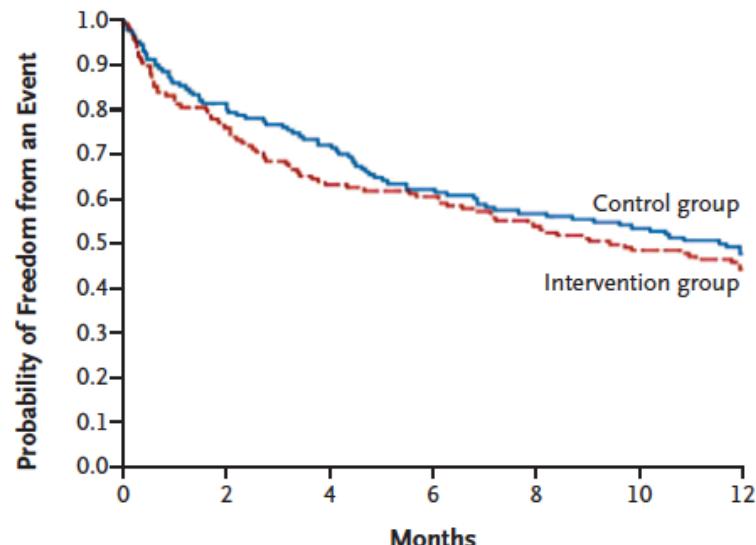
G.W. Stone, J.A. Lindenfeld, W.T. Abraham, S. Kar, D.S. Lim, J.M. Mishell, B. Whisenant, P.A. Grayburn, M. Rinaldi, S.R. Kapadia, V. Rajagopal, I.J. Sarembock, A. Brieke, S.O. Marx, D.J. Cohen, N.J. Weissman, and M.J. Mack, for the COAPT Investigators*

Percutaneous Repair or Medical Treatment for Secondary Mitral Regurgitation

J.-F. Obadia, D. Messika-Zeitoun, G. Leurent, B. Iung, G. Bonnet, N. Piriou, T. Lefèvre, C. Piot, F. Rouleau, D. Carrié, M. Nejjari, P. Ohlmann, F. Leclercq, C. Saint Etienne, E. Teiger, L. Leroux, N. Karam, N. Michel, M. Gilard, E. Donal, J.-N. Trochu, B. Cormier, X. Armoiry, F. Boutitie, D. Maucort-Boulch, C. Barnel, G. Samson, P. Guerin, A. Vahanian, and N. Mewton, for the MITRA-FR Investigators*



No. at Risk	Control group	Device group
Control group	312	294
Device group	302	286



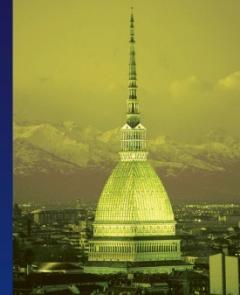
No. at Risk	Control group	Intervention group
Control group	152	123
Intervention group	151	114



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(J Am Coll Cardiol 2015;66:1747-61)

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PHILIPS

FR 29Hz
15cm

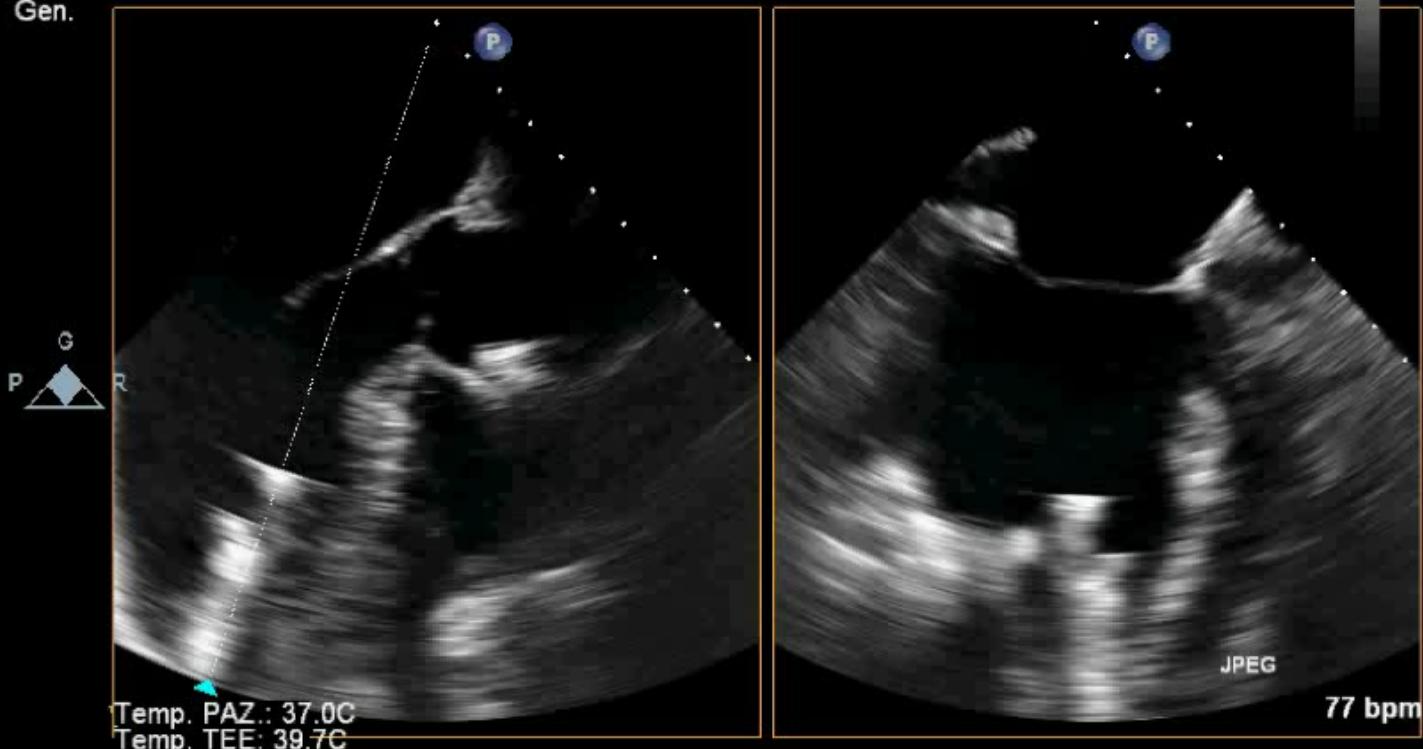
xPlane
62%
62%
50dB
P Off
Gen.

125
19

TIS0.1 MI 0.5

X7-2t/Adulti

M4



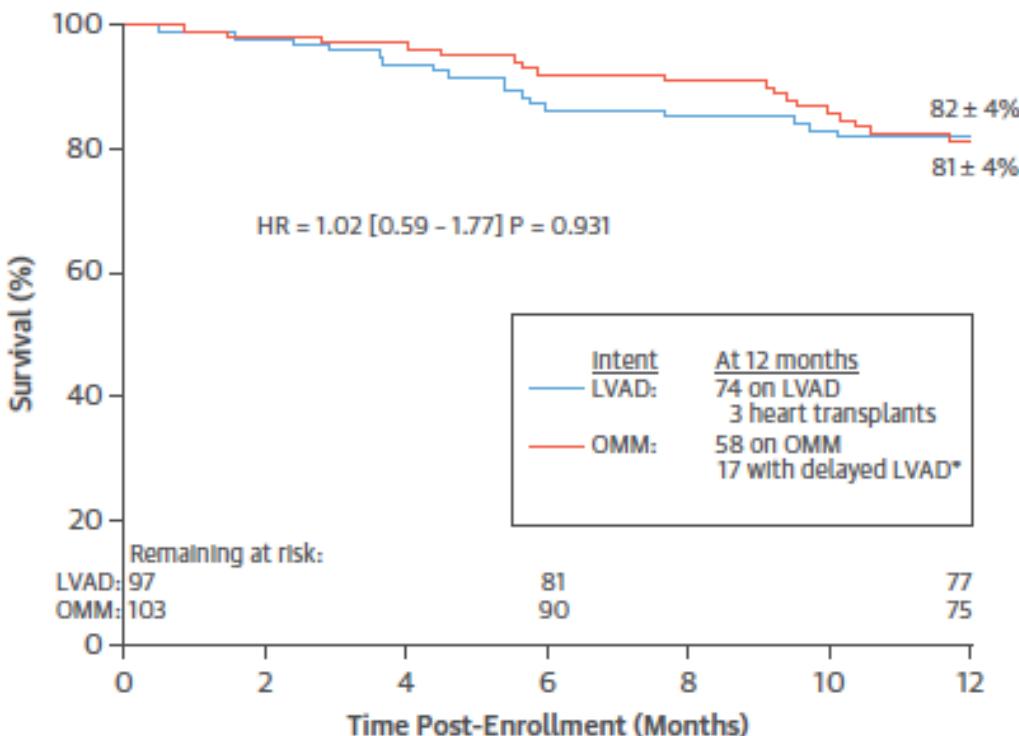


Risk Assessment and Comparative Effectiveness of Left Ventricular Assist Device and Medical Management in Ambulatory Heart Failure Patients

Results From the ROADMAP Study

Jerry D. Estep, MD,* Randall C. Starling, MD, MPH,† Douglas A. Horstmann, MD,‡ Carmel Craig H. Selzman, MD,|| Keyur B. Shah, MD,¶ Matthias Loebe, MD, PhD,* Nader Moazami, M James W. Long, MD, PhD,‡ Josef Stehlík, MD, MPH,|| Vigneshwar Kasirajan, MD,¶ Donald C. John B. O'Connell, MD,** Andrew J. Boyle, MD,†† David J. Farrar, PhD,*** Joseph G. Rogers, † for the ROADMAP Study Investigators

FIGURE 3 Intention-to-Treat Survival



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Back	Seattle Heart Failu...	Info
Lymphocytes?	28 %	>
Uric Acid:	6 mg/dL	>

Results

Anticipated 1-Year Survival	30.7 %
Anticipated 5-Year Survival	0.3 %

A.N.

74 years

ischemic HF

2015 Advanced CHF (3 hospital.)

AFib, ablation

hemodynamic limitation to ACE-I

12/2015 AHF SBP 90 mmHg, INTERMACS 3

lab: crea 1.65, bil 1.6, Na 130

D.P.

70 years

ischemic HF

AFib, ablation

2018 Advanced CHF (1 hospital.)

no hemodynamic limitation to ACE-I

7/2015 AHF SBP 100 mmHg, INTERMACS 4

lab: crea 1.1, bil 2.2, Na 130



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A.N.

echo:

LV EDD 67 mm EDV 195 ml

EF 24%, MR 4+/4+ EROA 0.8 cm²

RV TAPSE 18 mm

RV gradient 46 mmHg

D.P.

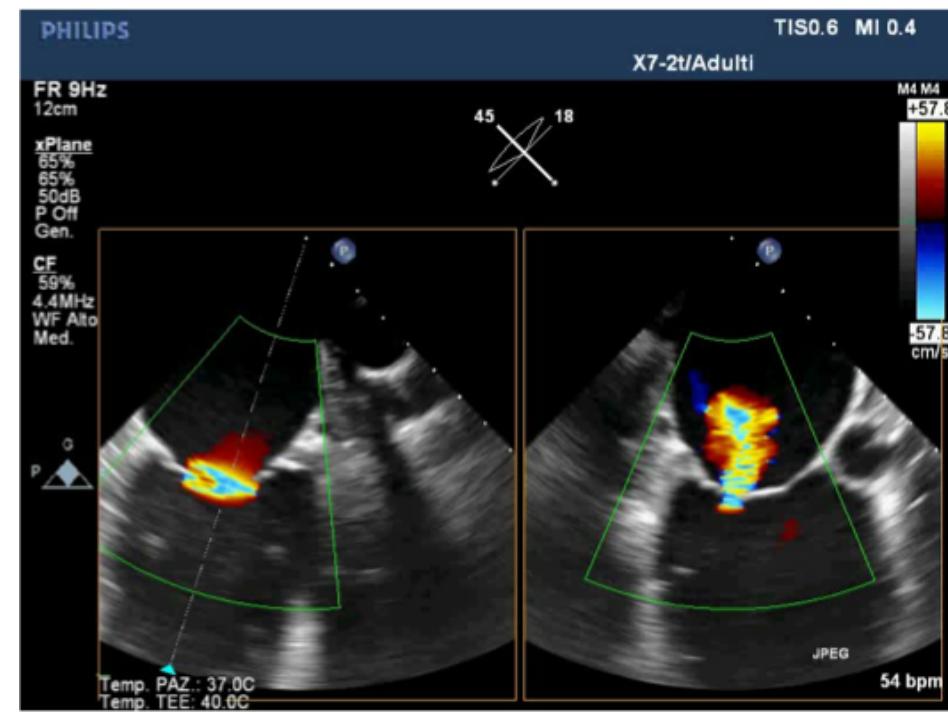
echo:

LV EDD 56 mm EDV 131 ml

EF 20%, MR 4+/4+ EROA 0.4 cm²

RV TAPSE 12 mm

RV gradient 47 mmHg



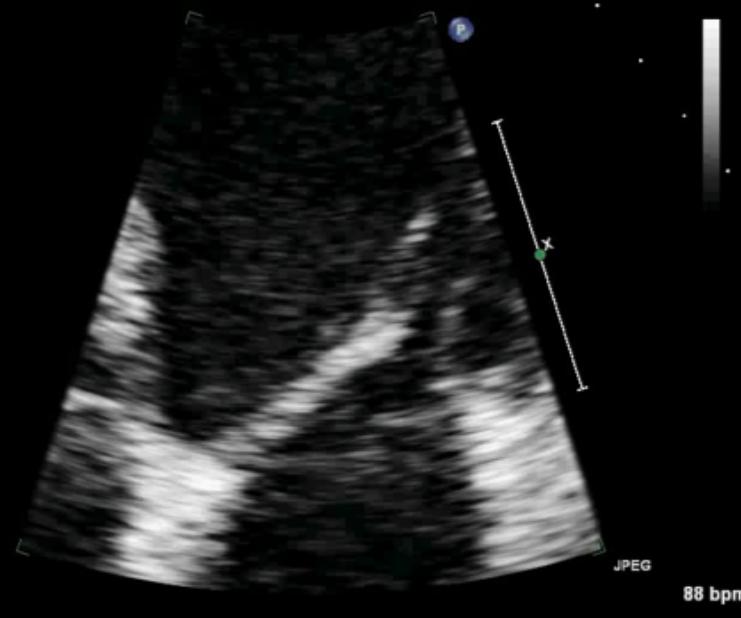
52530920151217

S5-1/Adulti

FR 129Hz
13cm

2D
71%
C 50
P Bassa
AGen

P
G
R
1.7 3.4



ORNATE OGICHE ORINESI

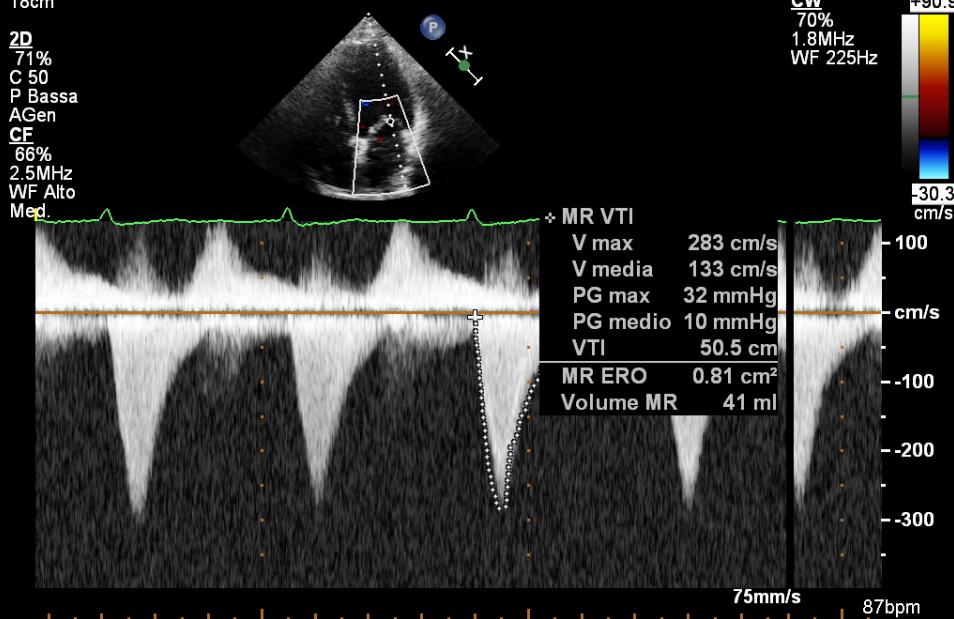


52530920151217 Cardiologia I Prof. Gaita S5-1/Adulti

FR 20Hz
18cm

2D
71%
C 50
P Bassa
AGen
CF
66%
2.5MHz
WF Alto
Med.

M



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A.N.

	P.sist.	P.dias.	PTD	P.media	A	V
Cap-polm				11	9	11
A-polm	26	14		19		
Vdx	28	1	3			
Adx M				2	1	1

Indice cardiaco: 1,79 (l/min)m² levosimendan 72 h pre + dobu 5y

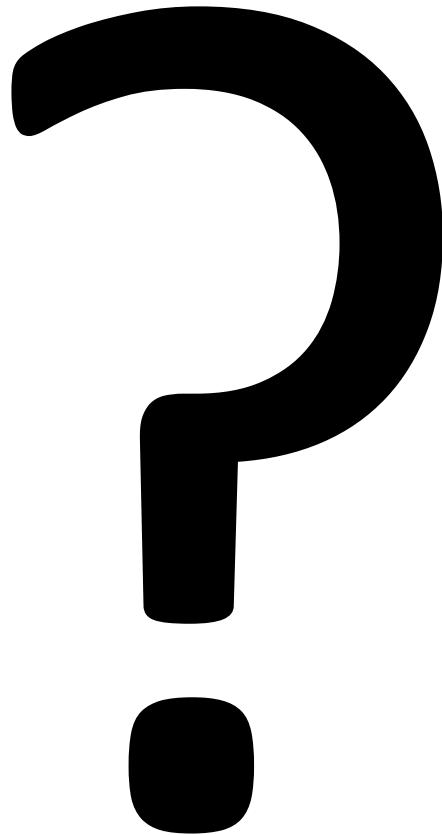
D.P.

	P.sist.	P.dias.	PTD	P.media	A	V
Cap-polm				8		11
A-polm	23	10		15		
Vdx	23	1	2			
Adx M				2		3
Indice cardiaco: 1,89 (l/min)m ²		dobu 5y + NTP 1.5 y				



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A.N.

da 12/2015 nessun ulteriore ricovero

NYHA II,

ripreso ACE-I e poi sostituito con ARNI

Back Seattle Heart Failu... Info

Hemoglobin:	13,8 g/L >
Lymphocytes?	25 % >
Uric Acid:	8 mg/dL >

Results

Anticipated 1-Year Survival	58.0 %
Anticipated 5-Year Survival	6.5 %

D.P.

dopo 3 mesi da MitraClip INTERMACS 3

Seattle Heart Fai... ☆ ⓘ

Results

Anticipated 1-Year Survival	5.2 %
Anticipated 5-Year Survival	0 %

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D.P.



FC: 80 b/min Ritmo: ARITMIA ATRIALE

	P.sist.	P.dias.	PTD	P.media	A	V
Ao	100	60		75		
Vsx	100	12	17			
Cap-polm				21	27	18
A-polm	39	21		28		
Vdx	39	2	5			
Adx M				5	6	7

Portata

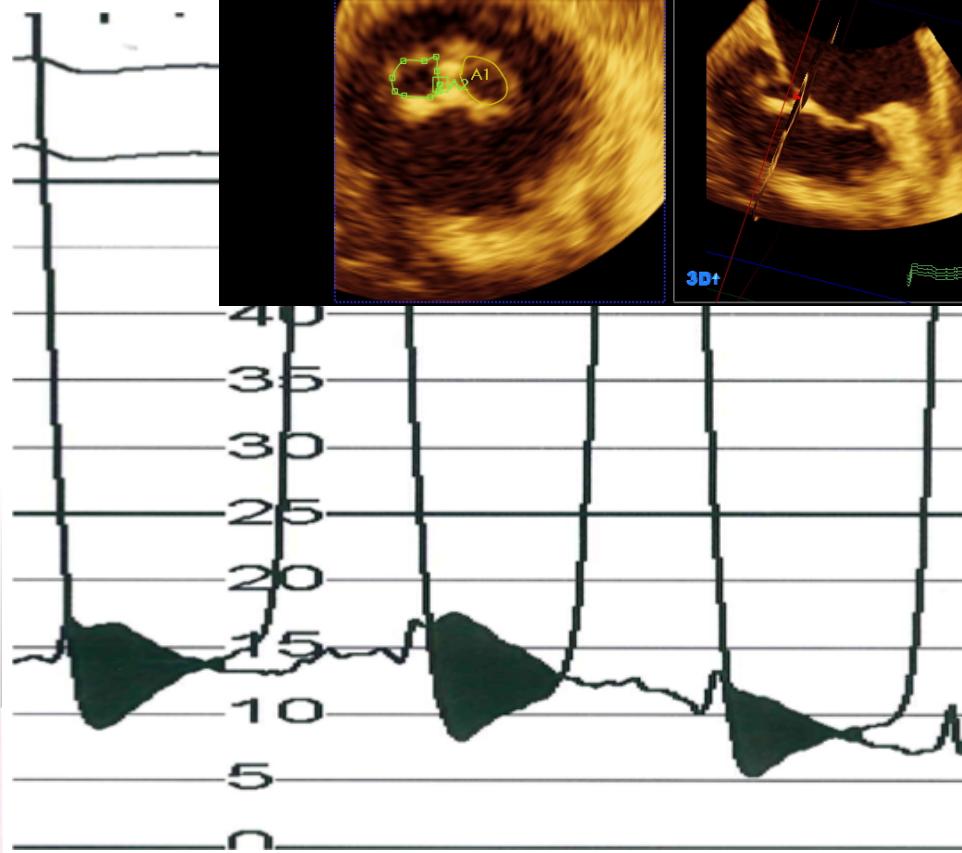
Fick: 2,3 l/min TermoD: 2 l/min
Indice cardiaco: 1,26 (l/min)m²

dobu 5y + NTP 1.5 y

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Gi
CARDIOL
T

Valvola:	Mitrale
Frequenza cardiaca:	62 BPM
GC:	2,40 l/min
Gradiente	3,33 mmHg
Per. riemp. diastolico:	21,70 s/minuto
Area valvolare:	1,61 cm ²
Flusso valvolare:	110,60 ml/s





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D.P.

17/10/2018 LVAD



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