

Quand Implanter une Assistance Circulatoire ?

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Conflits d'intérêt

Thoratec
Heartware
Berlin Heart
Syncardia
Jarvik 2000

ECMO: Assistance de sauvetage

- Facile
- Rapide
- Au lit du patient: Réa, Cathé
- Peu coûteux
- Efficace
- Support circulatoire et respiratoire



80-90

Pompes pulsatile



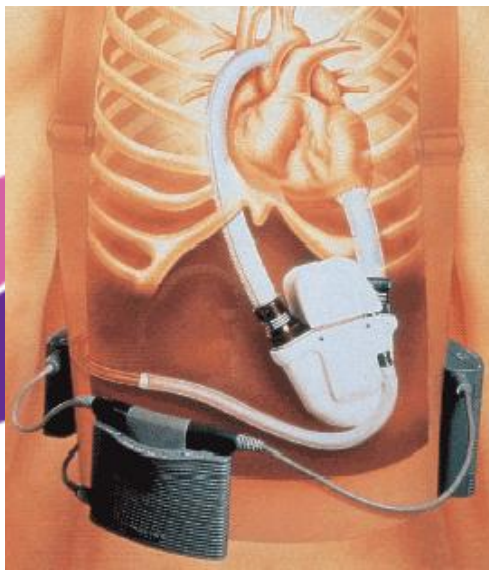
HeartMate

21^{ème} siècle

Pompes à débit continu



HeartMate II



Novacor

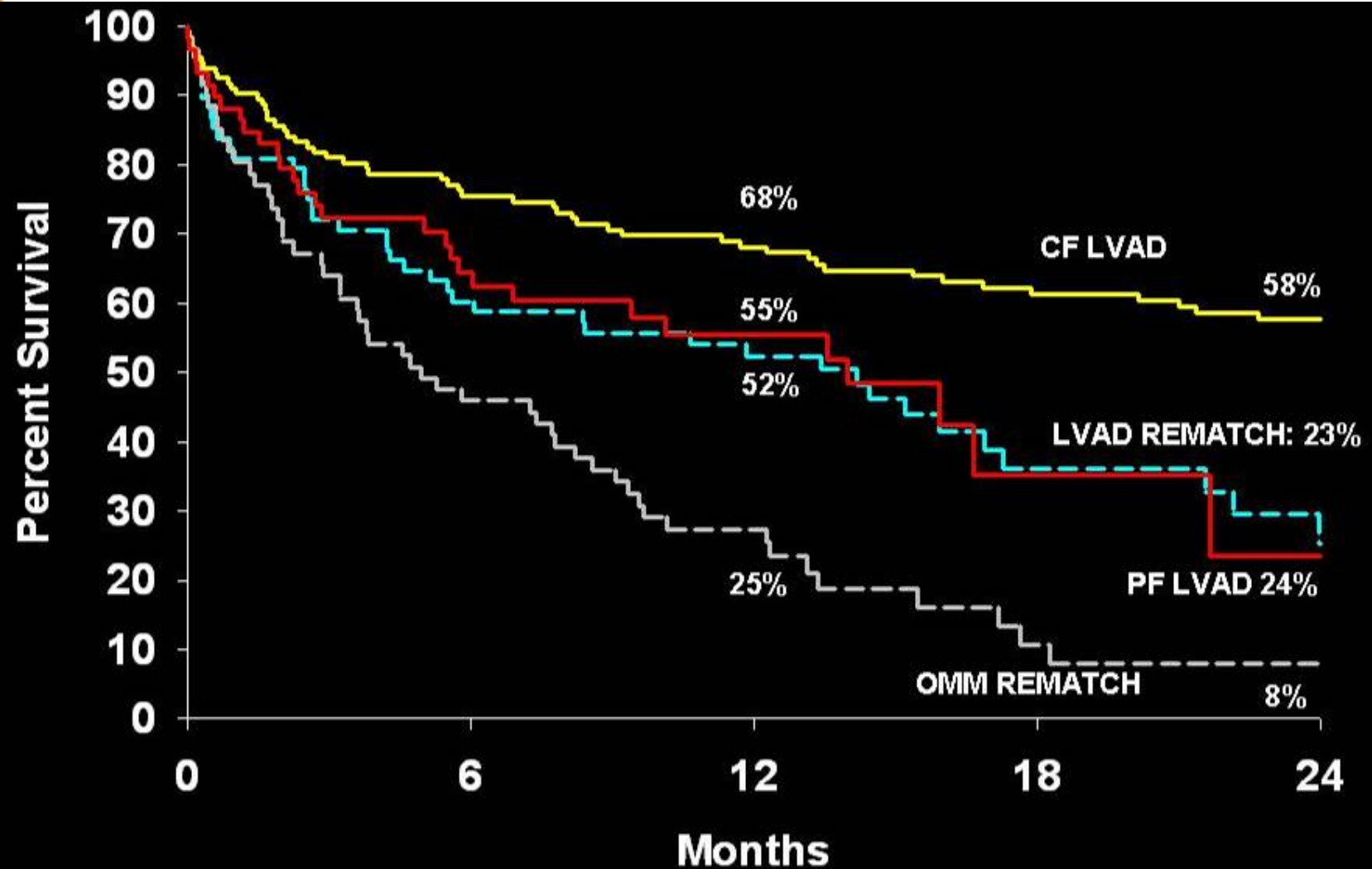


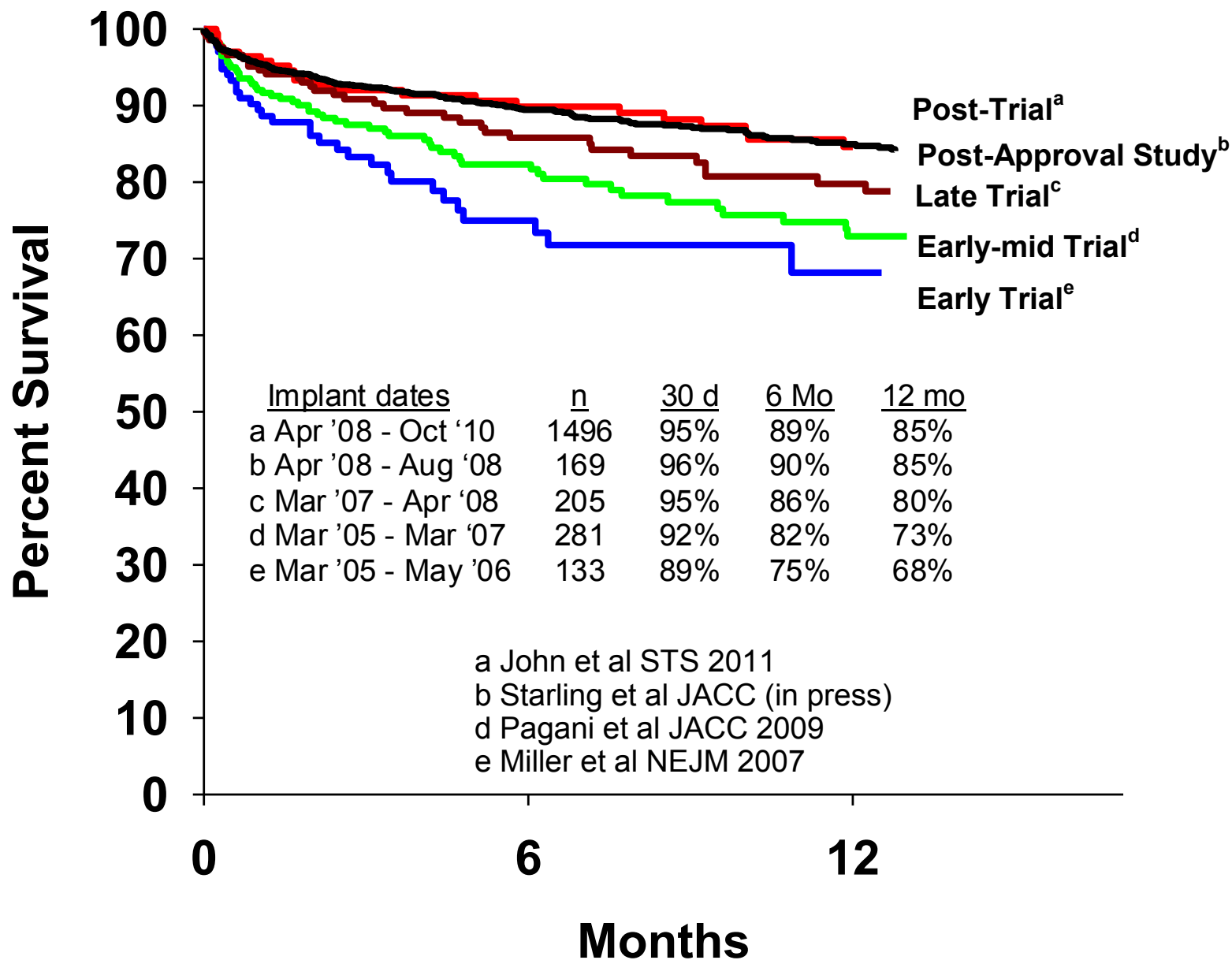
Jarvik 2000

HeartWare



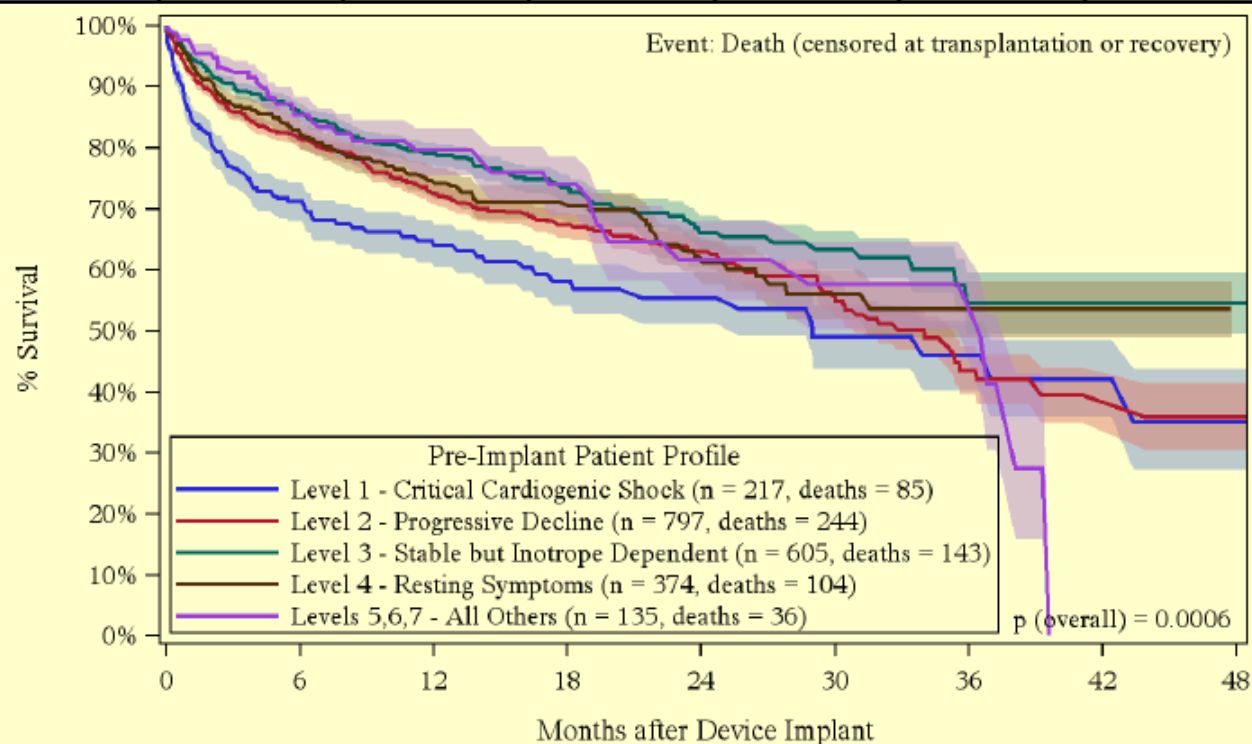
Survive vs REMATCH







PATIENT PROFILE AT TIME OF IMPLANT	IMPLANT DATE PERIOD						TOTAL	
	< 2010		2010 - 2011		2012 - 2013 (Jan-Mar)			
	n	%	n	%	n	%	n	%
1 Critical Cardio Shock	75	24.0 %	108	10.3 %	82	9.1 %	265	11.7 %
2 Progressive Decline	144	46.1 %	385	36.9 %	320	35.5 %	849	37.6 %
3 Stable but Inotrope dependent	41	13.1 %	301	28.9 %	275	30.5 %	617	27.3 %
4 Resting Symptoms	36	11.5 %	188	18.0 %	158	17.5 %	382	16.9 %
5 Exertion intolerant	10	3.2 %	36	3.4 %	42	4.6 %	88	3.9 %
6 Exertion limited	3	0.9 %	19	1.8 %	14	1.5 %	36	1.5 %
7 Advanced NYHA Class 3	3	0.9 %	4	0.3 %	10	1.1 %	17	0.7 %
TOTAL	312	100.0 %	1041	100.0 %	901	100.0 %	2254	100.0 %



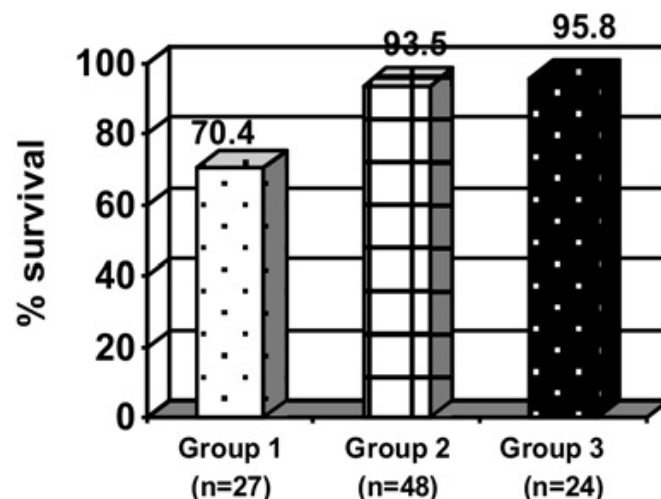
3 centres

101 patients

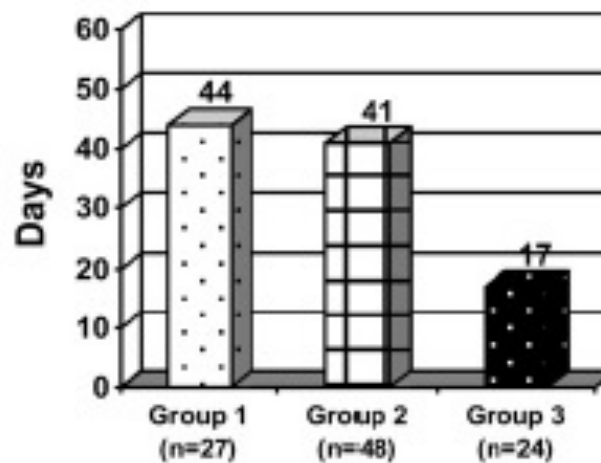
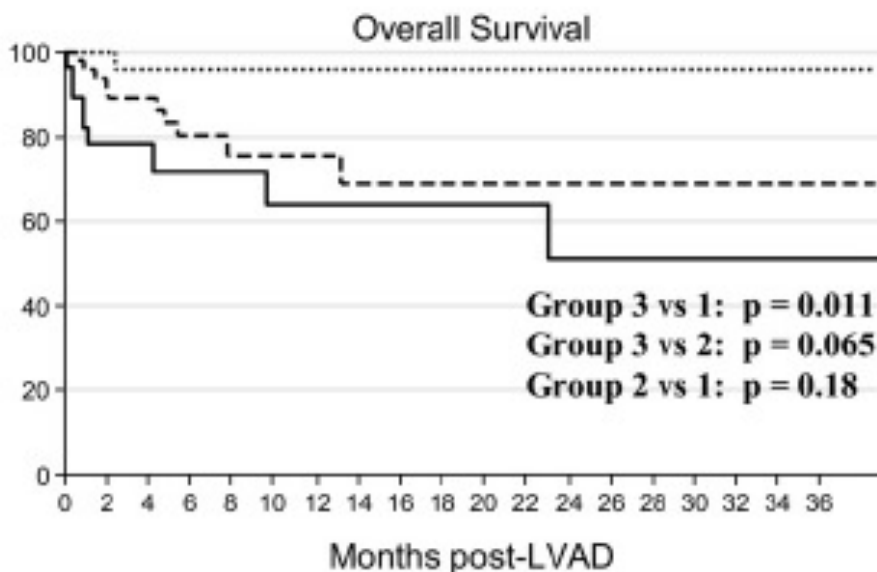
Intermacs 1 (28)

Intermacs 2-3 (49)

Intermacs 4-7 (24)



Group 3 vs 1 : $p = 0.02$
 Group 3 vs 2 : $p = 0.59$
 Group 2 vs 1 : $p < 0.009$

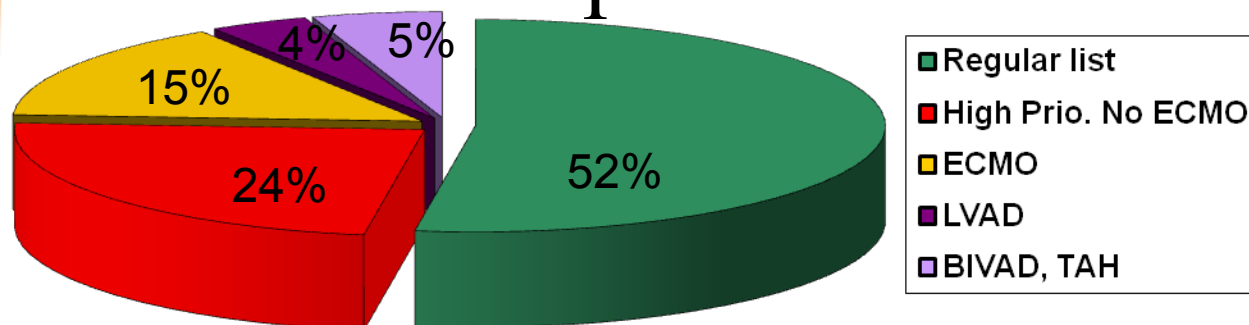


Group 3 vs 1: $p < 0.001$
 Group 3 vs 2: $p < 0.001$
 Group 2 vs 1: $p = 0.62$

— Group 1 - - - - Group 2 Group 3

La Pitié-Salpêtrière: 2005-2011

487 transplantations cardiaques

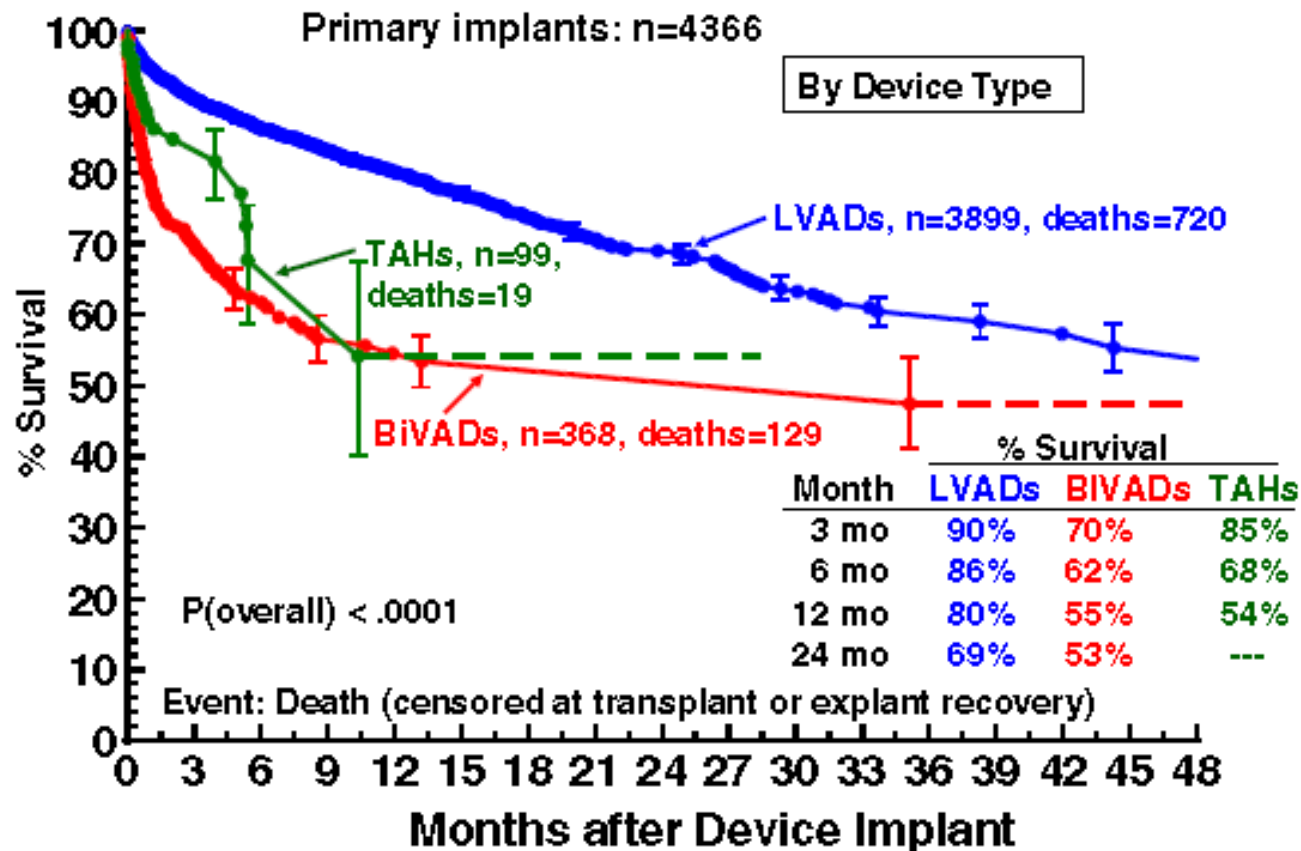


	Mortalité 1 an
Standard	29% → 15%
SU1 sans ECMO	23%
ECMO	36%→22%
LVAD	11%
BiVAD	20%

Avant la dysfonction biventriculaire

The Fourth INTERMACS Annual Report: 4,000 implants and counting

JK Kirklin et al.



	Patient Status		Transplant Status		Recovery Status		Total
	Alive	Dead	No	Yes	No	Yes	
Pre-Implant Device Strategy							
BTT - pt currently listed	422	86	306	202	496	<u>12</u>	508
BTT - pt likely to be elig	227	51	192	86	273	5	278
BTT - pt moderately likely to be elig	65	25	70	20	89	1	90
BTT - pt unlikely to be elig	39	19	49	<u>9</u>	57	1	58
BTR	35	8	35	<u>8</u>	32	11	43
Destination	68	44	98	<u>14</u>	112	.	112
Other	.	2	2	.	2	.	2
Total	856	235	752	339	1061	30	1091

Destination Therapy

