

SAC 27 y 28
mayo 2022

Congreso de la
**Sociedad Asturiana
de Cardiología**
Sede: Parador de Corias



Cangas de Narcea

**Mesa manejo
contemporáneo de la
insuficiencia cardíaca**

Tratamiento Clásico

José Luis Lambert Rodríguez

MORTALIDAD MIOCARDIOPATIA DILATADA

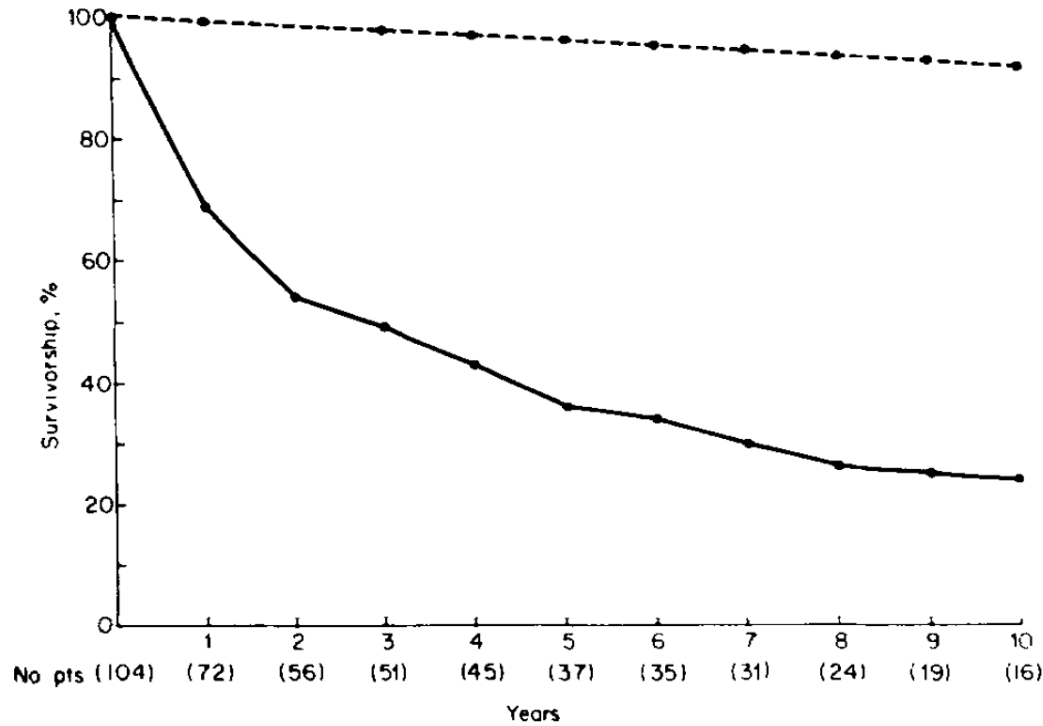
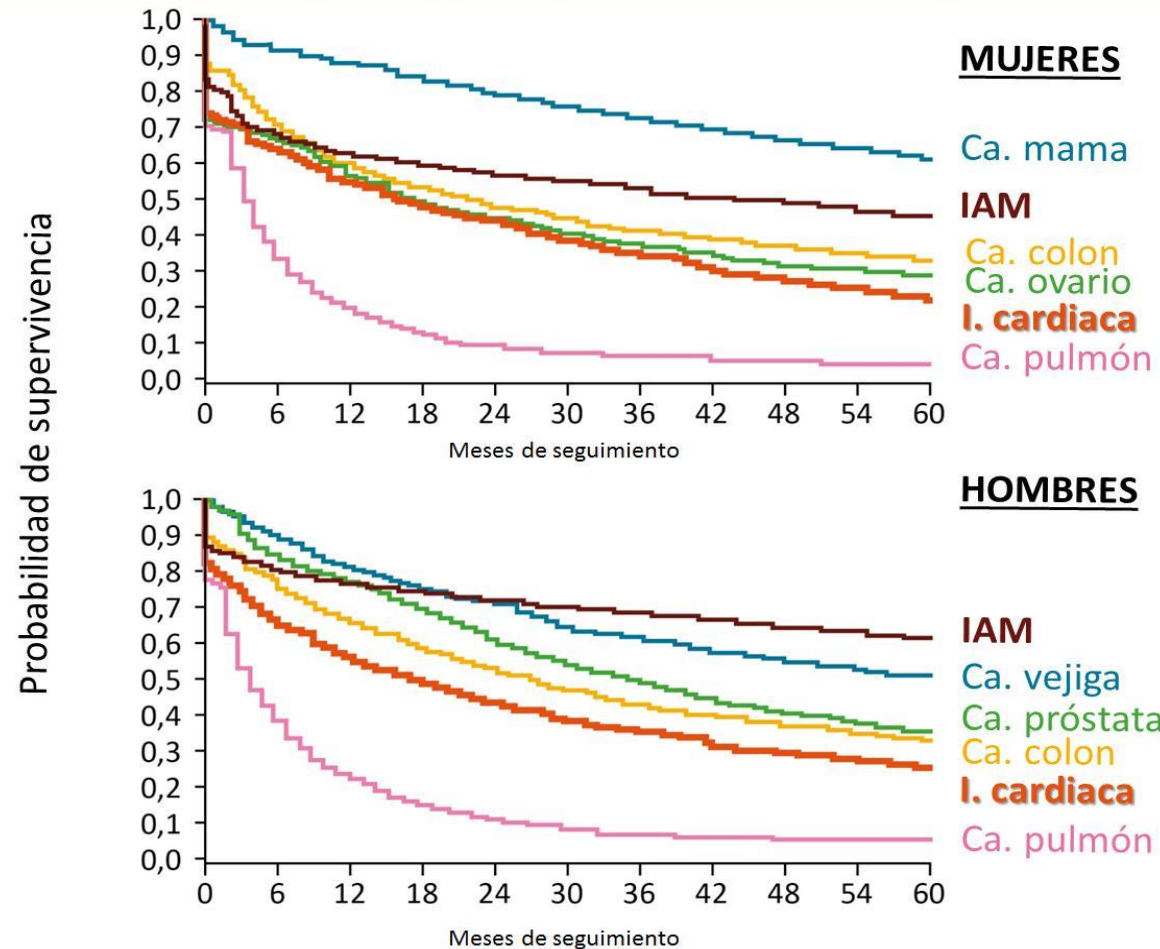


FIGURE 1. Observed survival plotted against time in years in 104 patients (pts.) with the diagnosis of idiopathic dilated cardiomyopathy (**solid line**). The **dashed line** represents the control expected survival, on the basis of age and sex distribution, according to the death rates of the Minnesota 1970 White Population Life Table. The number of alive patients under observation at each follow-up interval is indicated in parentheses.

Magnitud del problema: mortalidad (mayor que el cáncer)

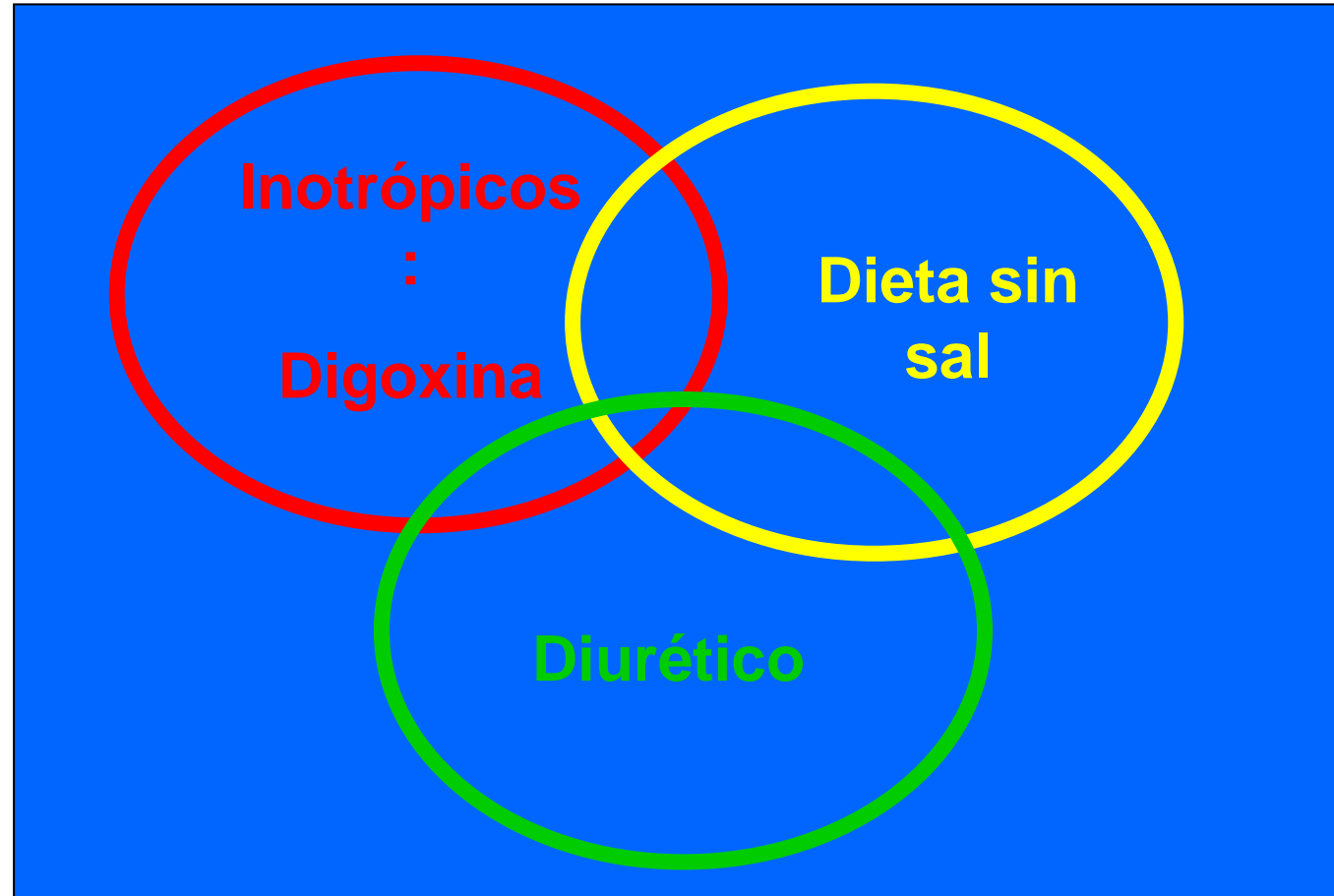


Ca.: cáncer;
IAM: infarto agudo
de miocardio.

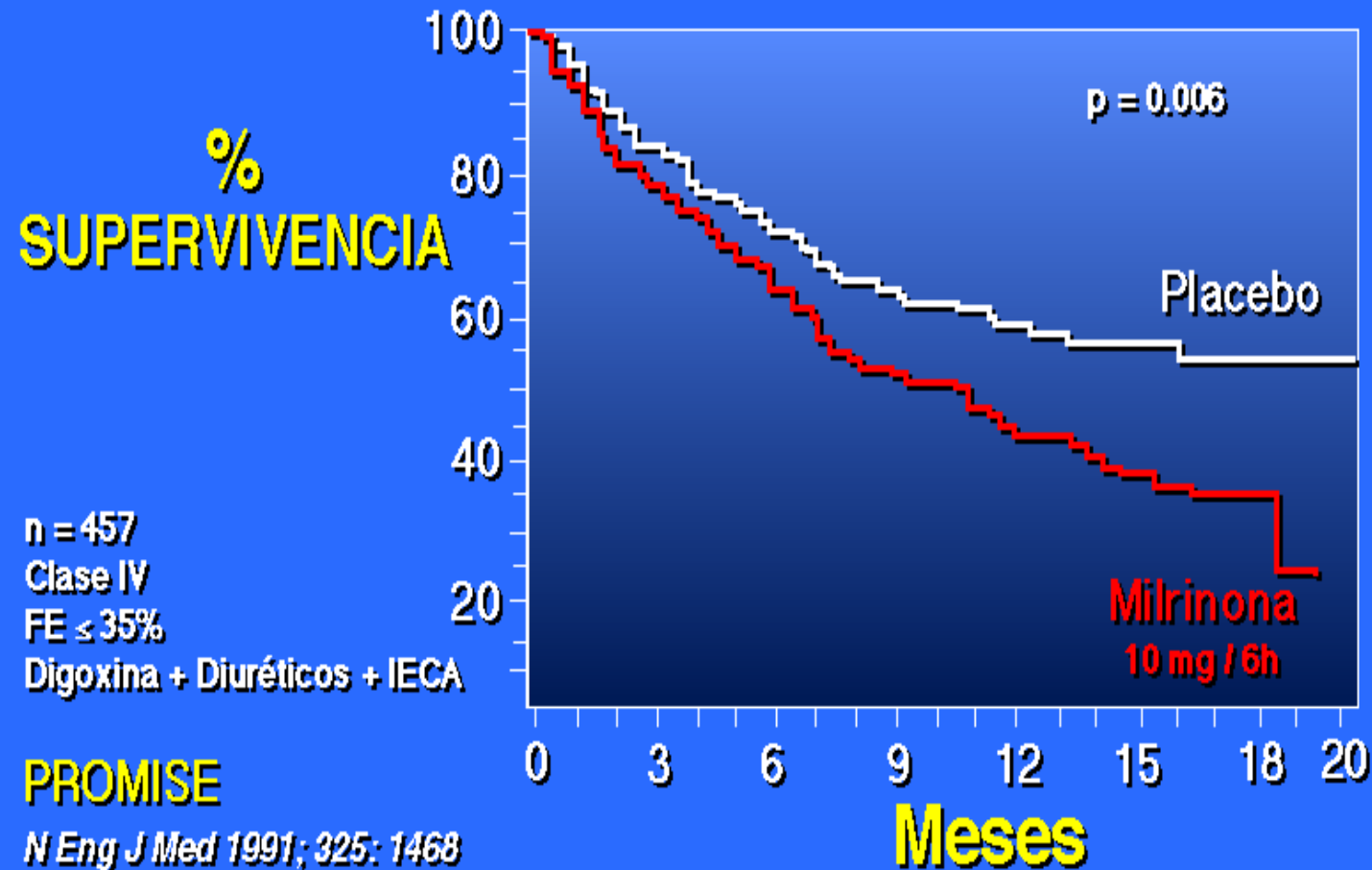
Stewart S, et al. Eur
J Heart Fail. 2001; 3:
315-322.

INSUFICIENCIA CARDIACA

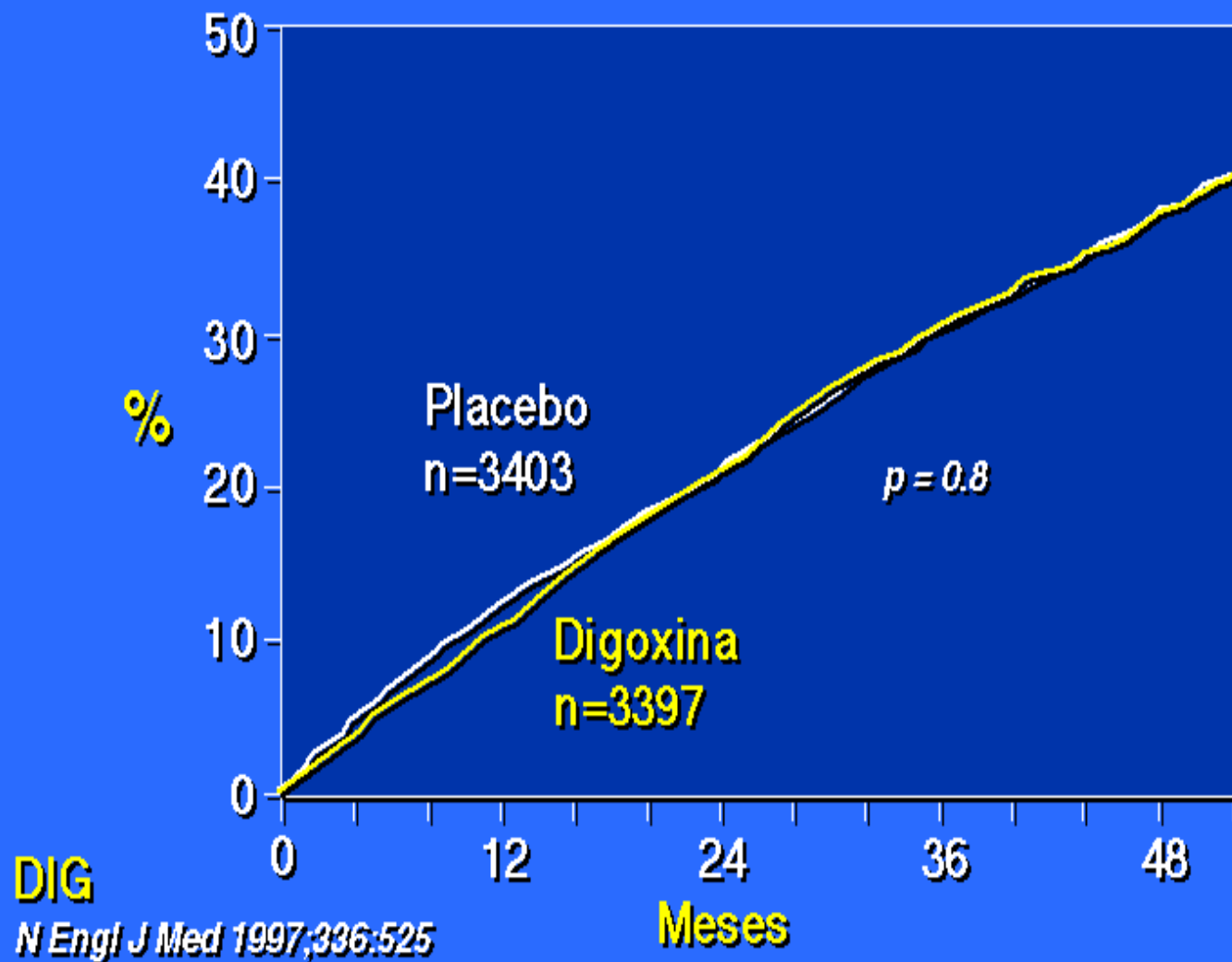
TRATAMIENTO CLÁSICO

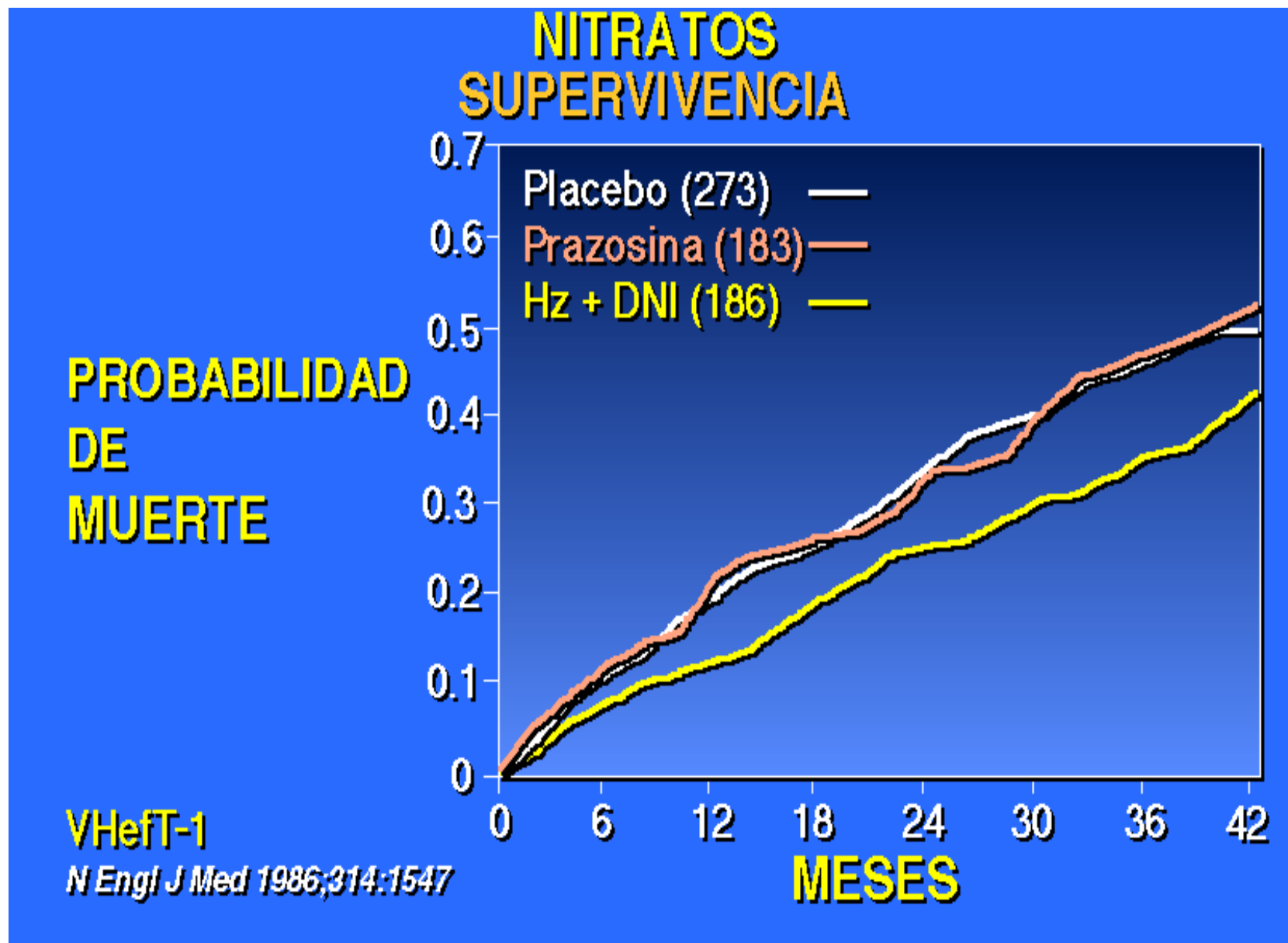


INOTROPICOS POSITIVOS SUPERVIVENCIA

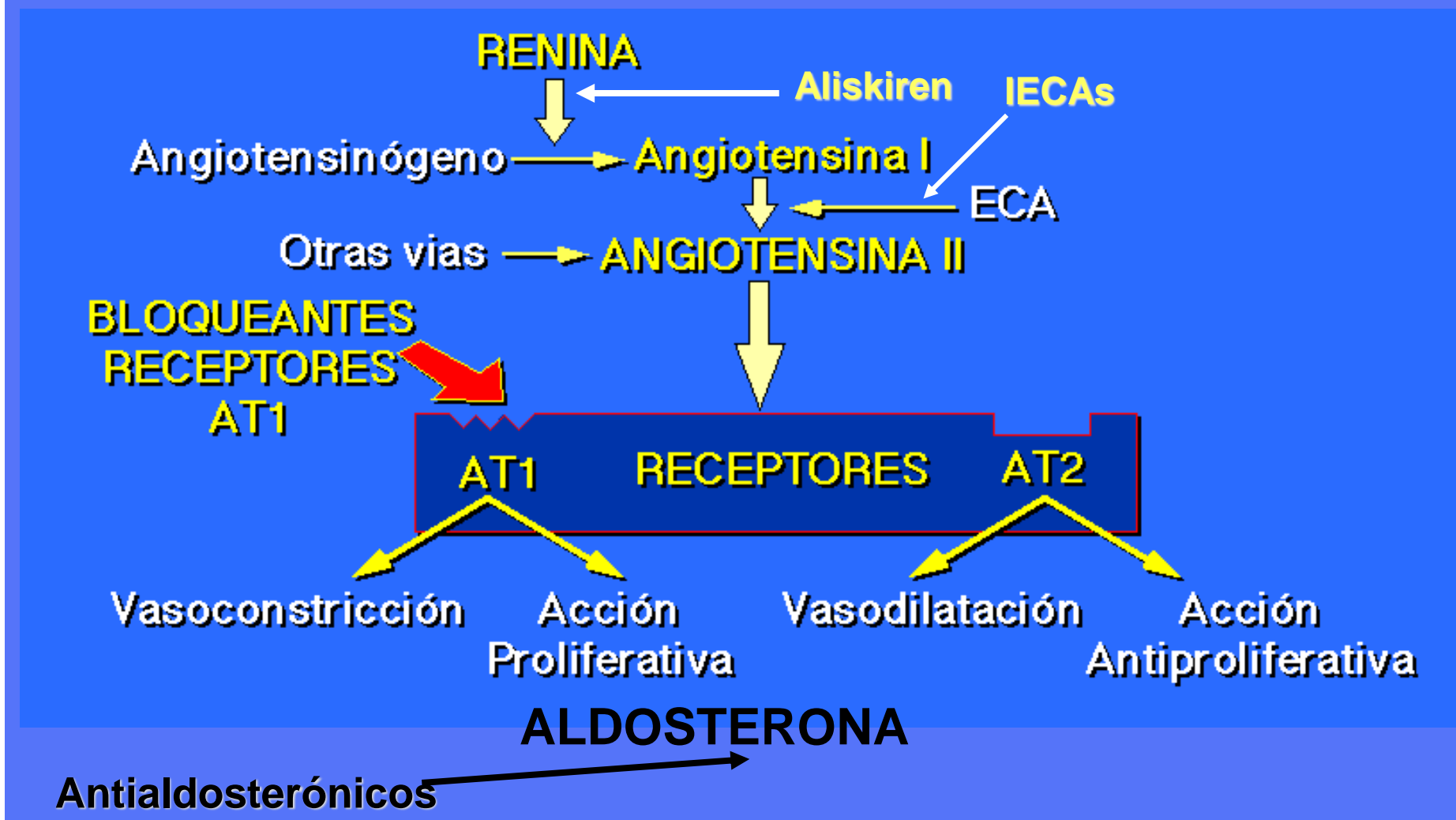


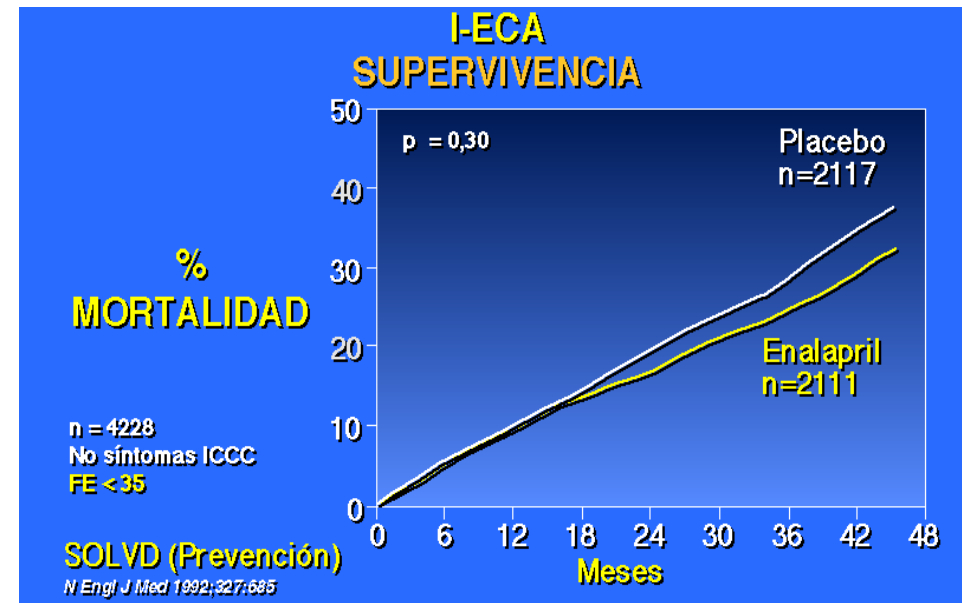
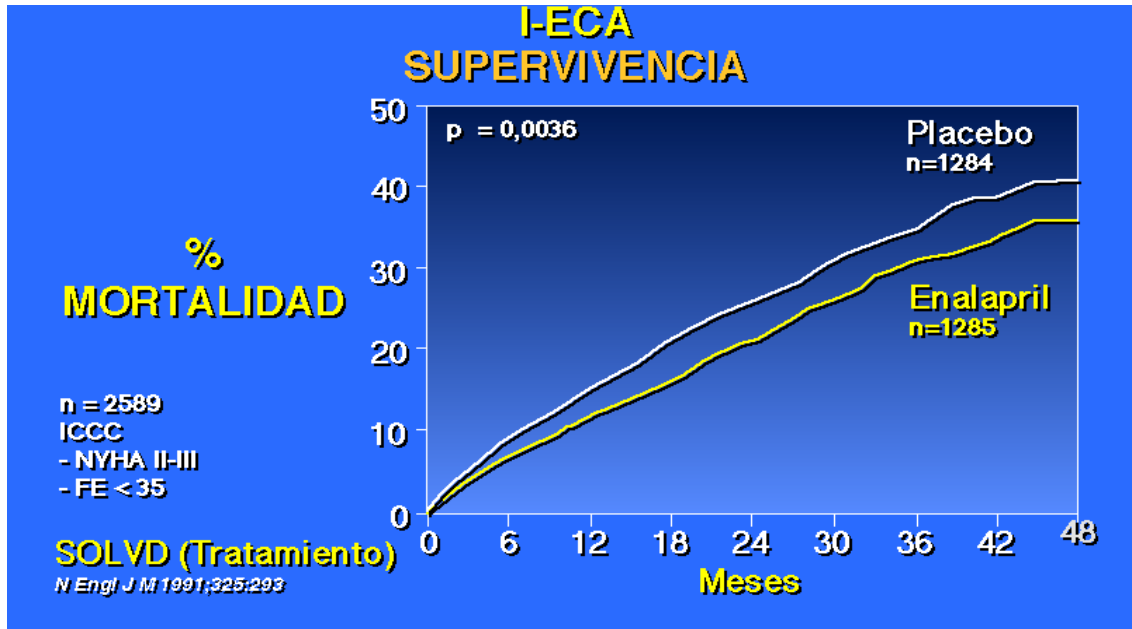
MORTALIDAD GLOBAL





SISTEMA RENINA-ANGIOTENSINA: INHIBIDORES



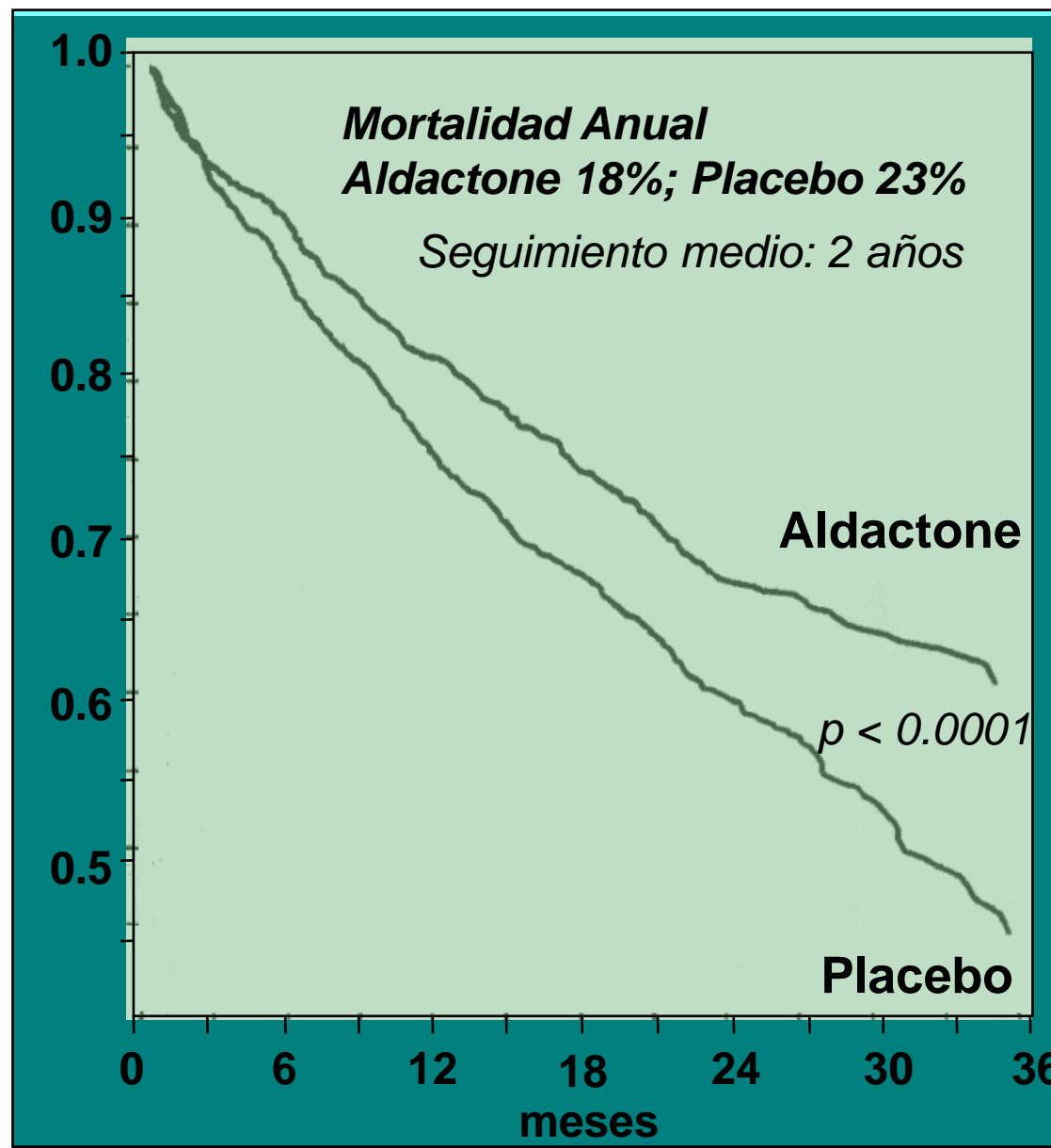


ESTUDIO RALES SUPERVIVENCIA

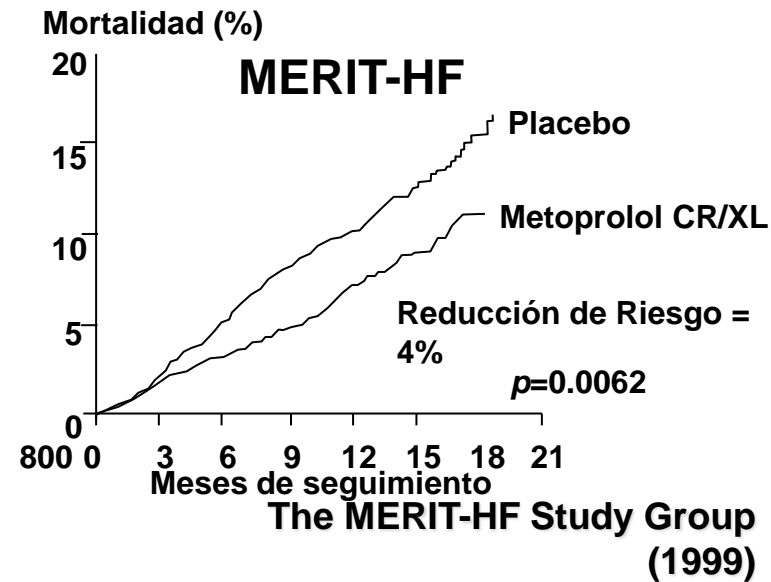
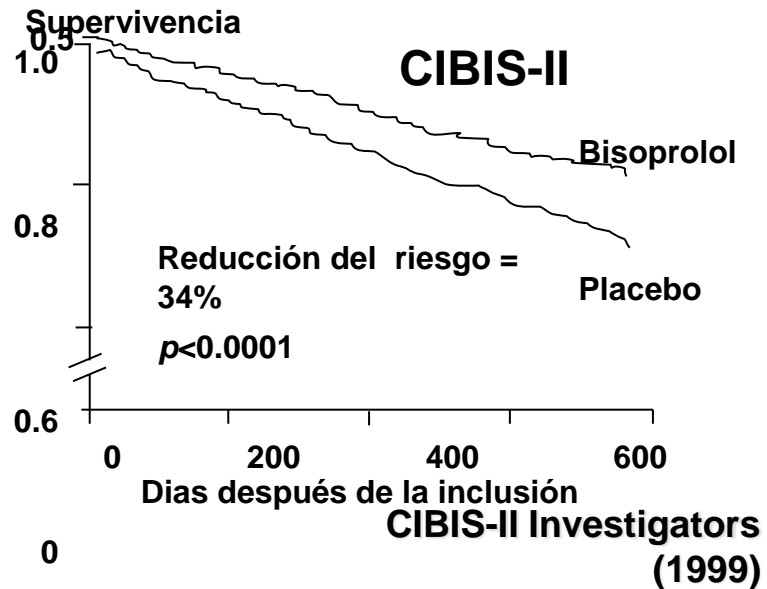
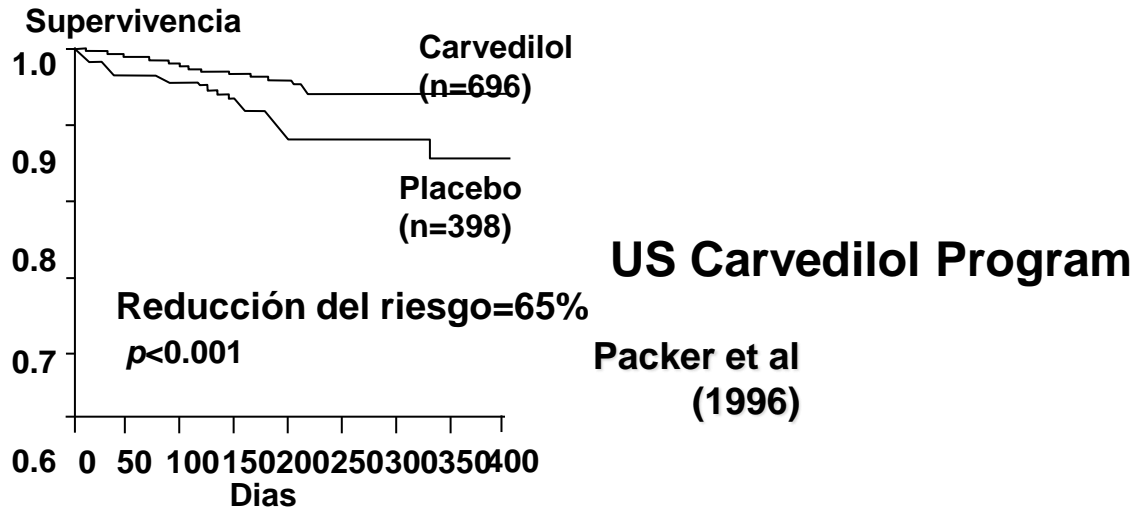
n=1663

Mortalidad Total
Aldactone 35.5%
Placebo 46%
RR 29%
95% IC (19-39%)
P < 0.0001

N Engl J Med 1999;341:709-17



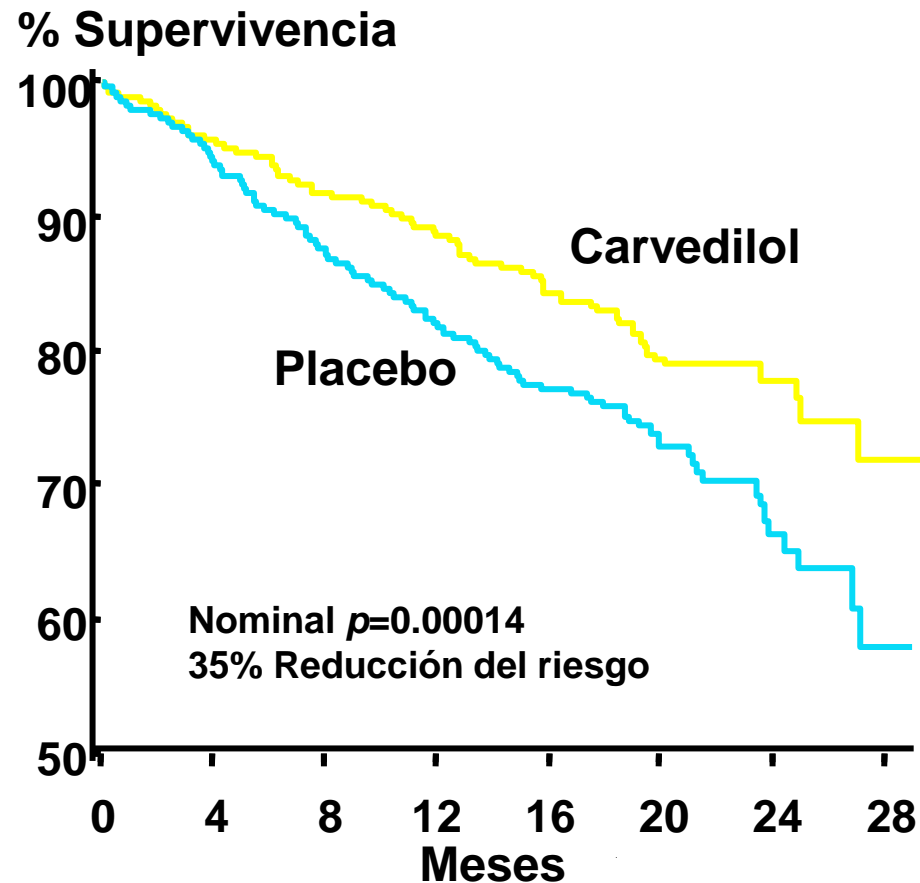
β bloqueantes en ICC Mortalidad por cualquier causa



COPERNICUS

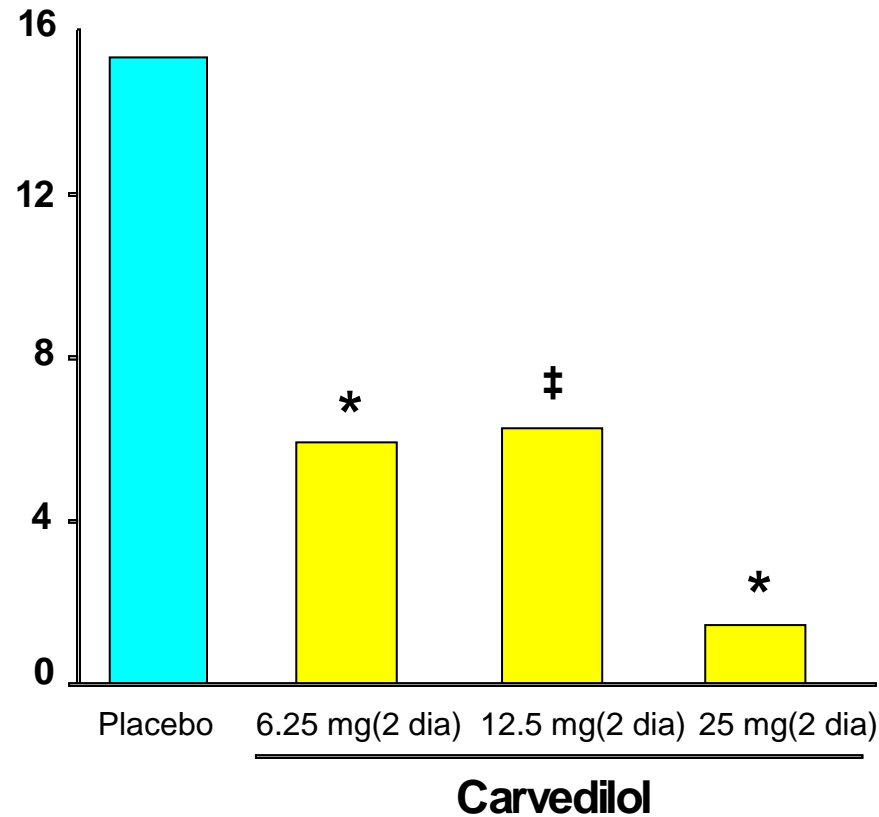
IC GRADO III-IV/IV

Mortalidad por cualquier causa

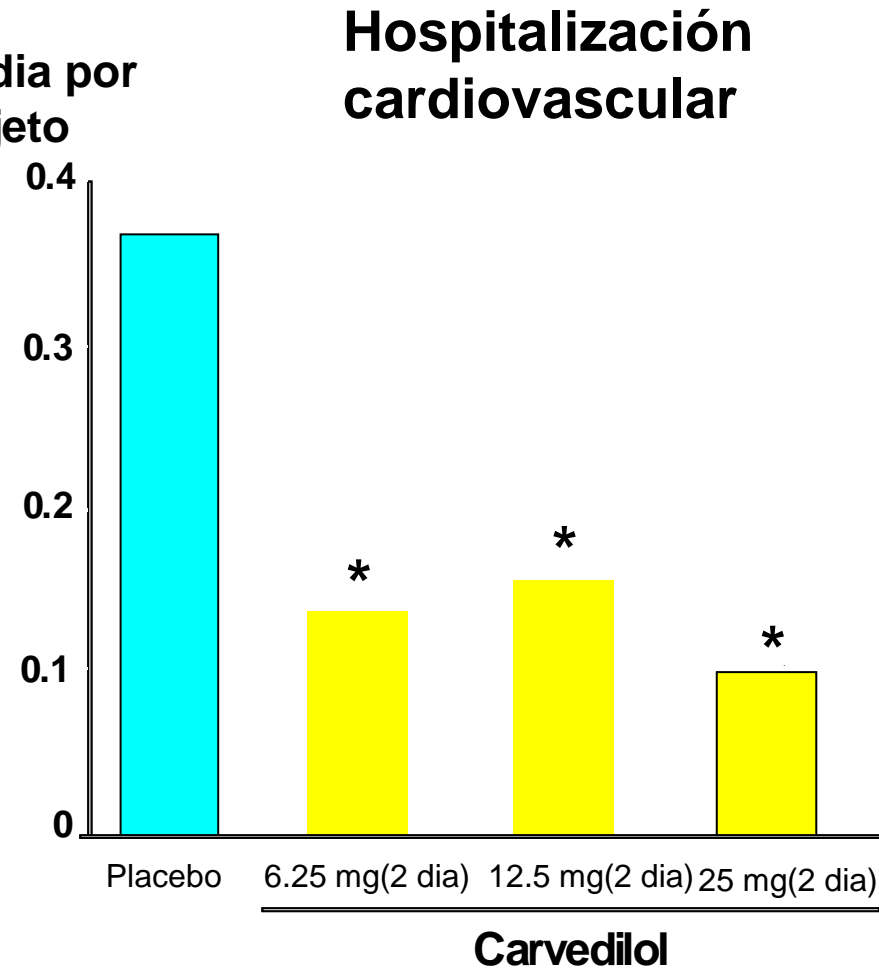


Relación Dosis/Efectividad

Mortalidad % Mortalidad

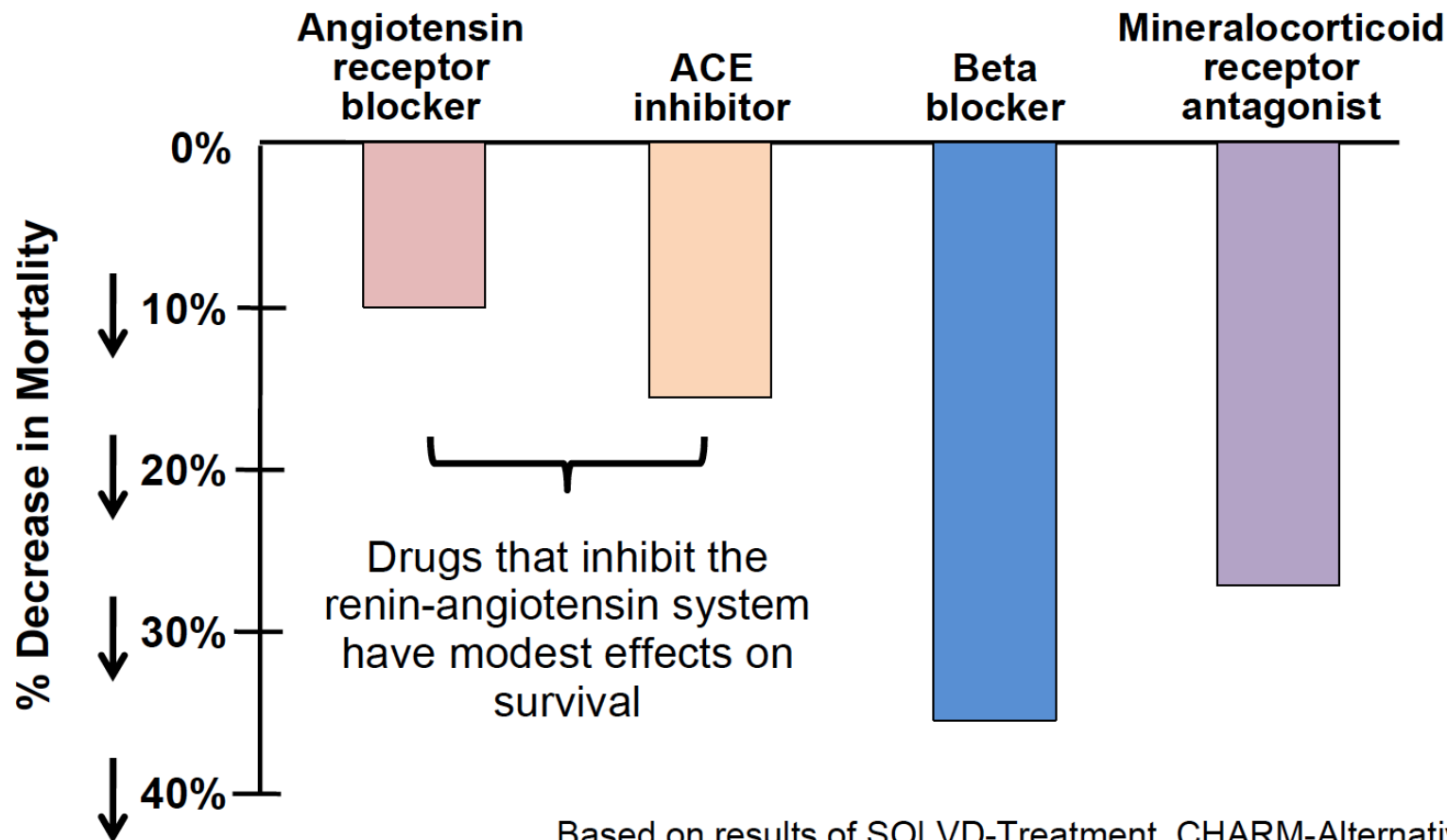


Media por sujeto





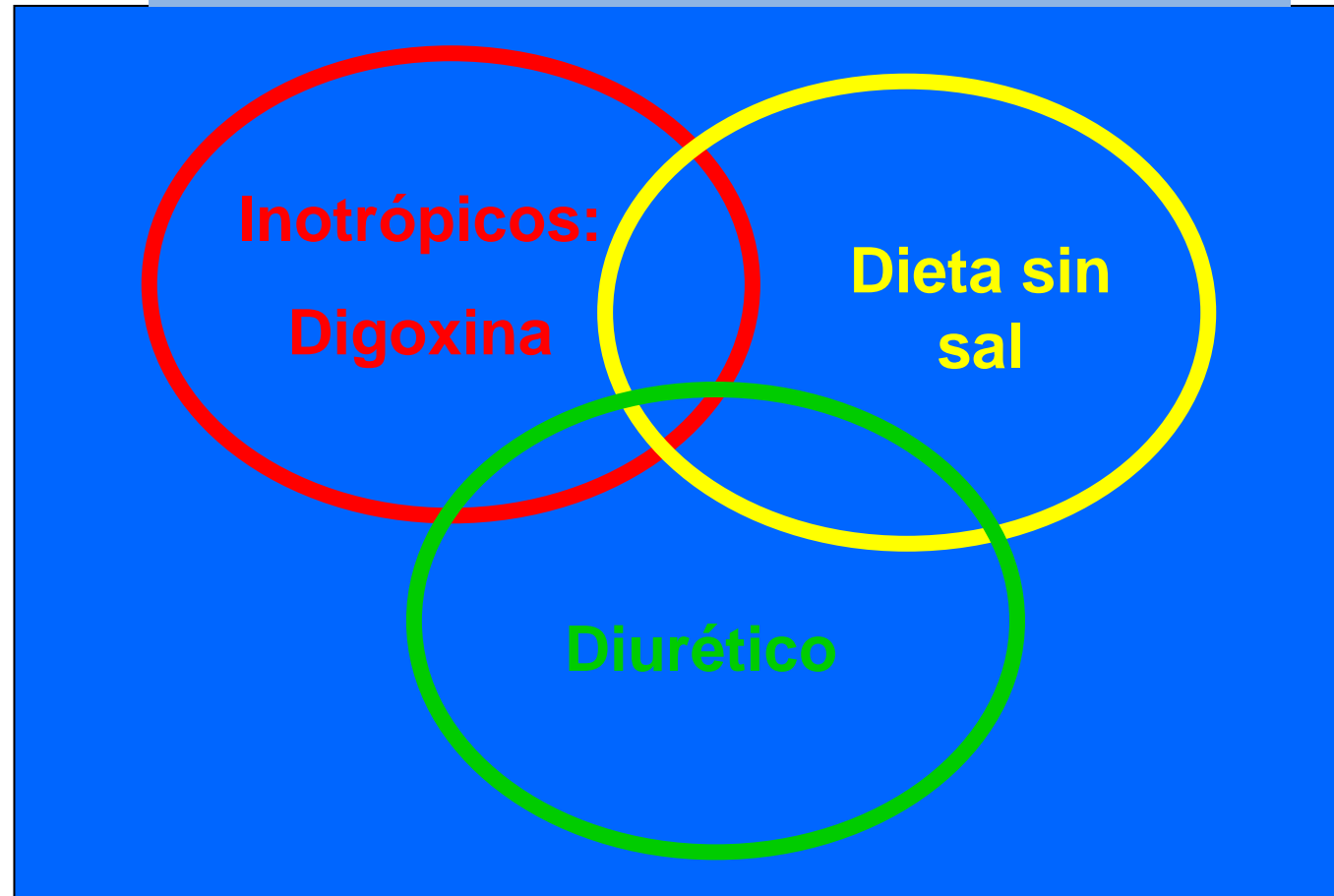
Drugs That Reduce Mortality in Heart Failure With Reduced Ejection Fraction



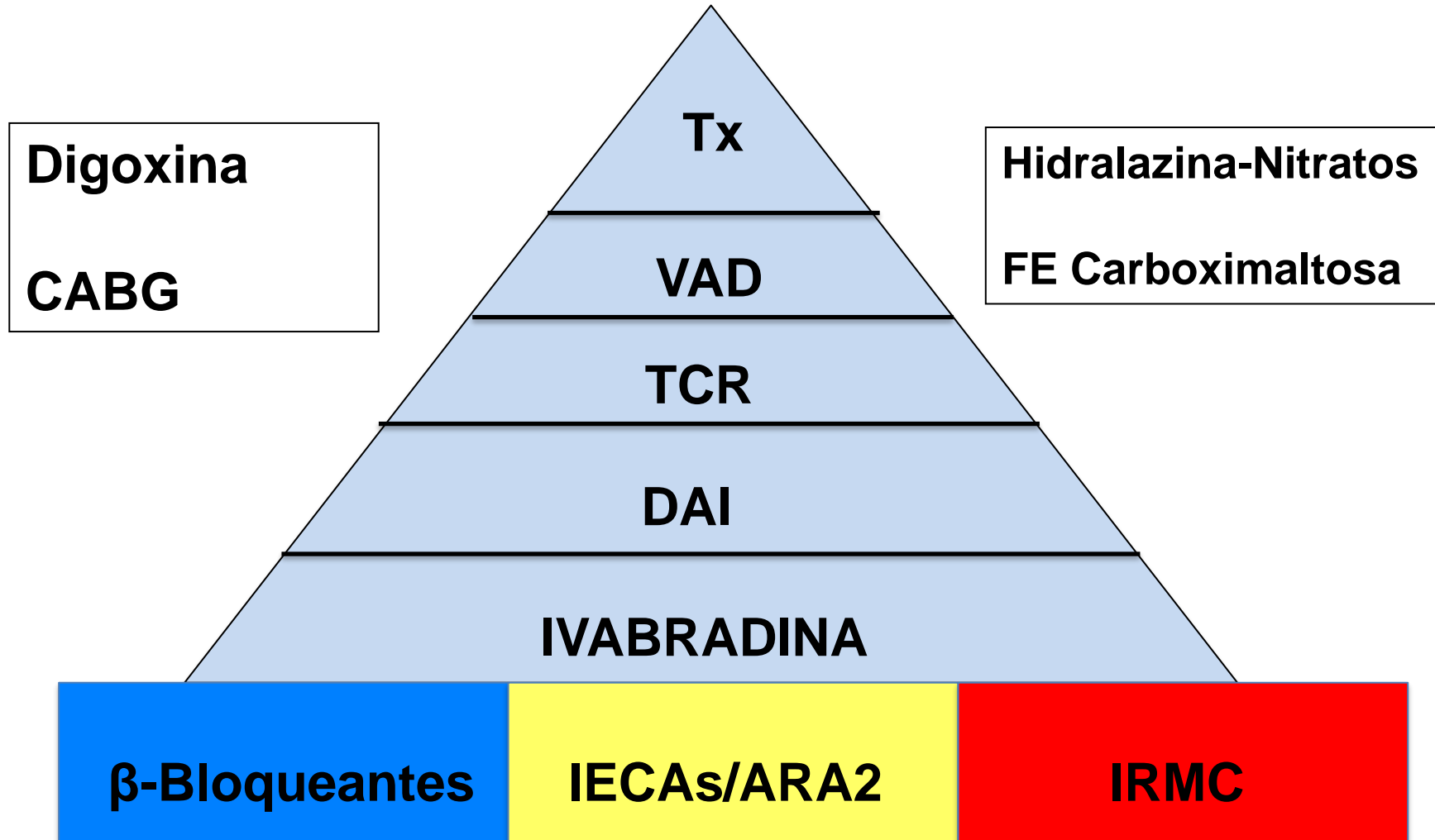
Based on results of SOLVD-Treatment, CHARM-Alternative, COPERNICUS, MERIT-HF, CIBIS II, RALES and EMPHASIS-HF

INSUFICIENCIA CARDIACA

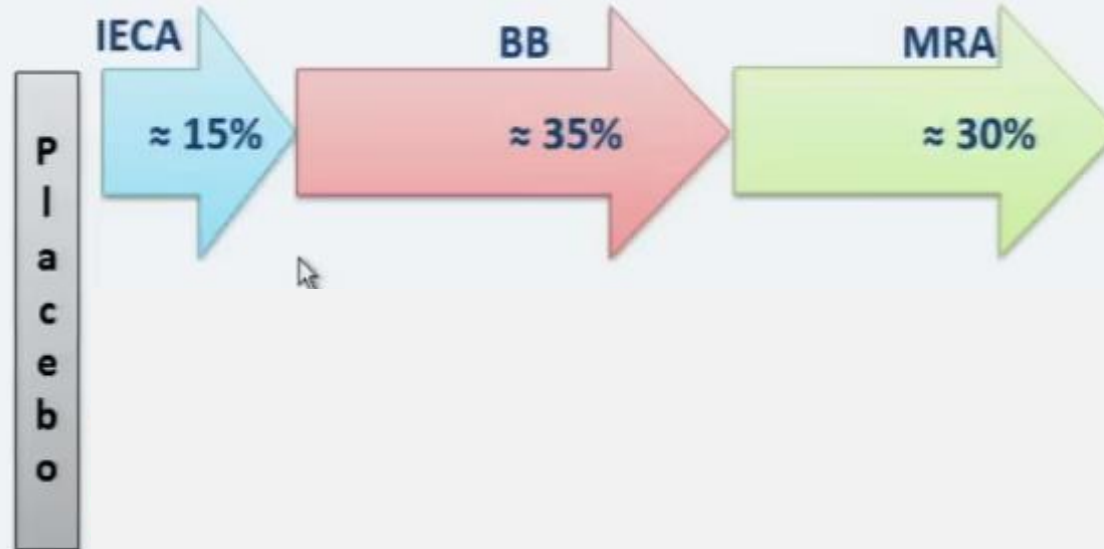
TRATAMIENTO FALLIDO



Pirámide Tratamiento Clásico de la IC-FEd



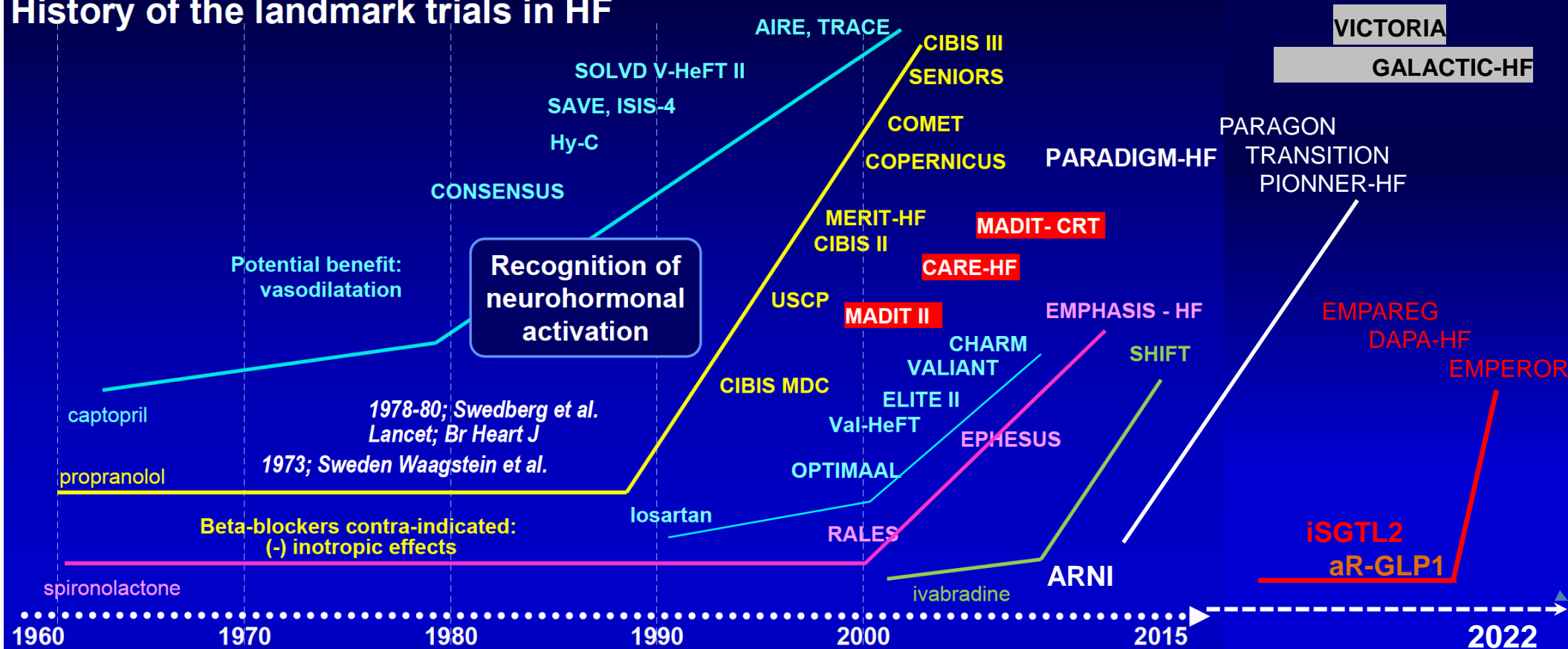
FE deprimida



Asistimos a una mejora del tratamiento

Landscape at the beginning of 21st century: HF treatable and preventable disease

History of the landmark trials in HF

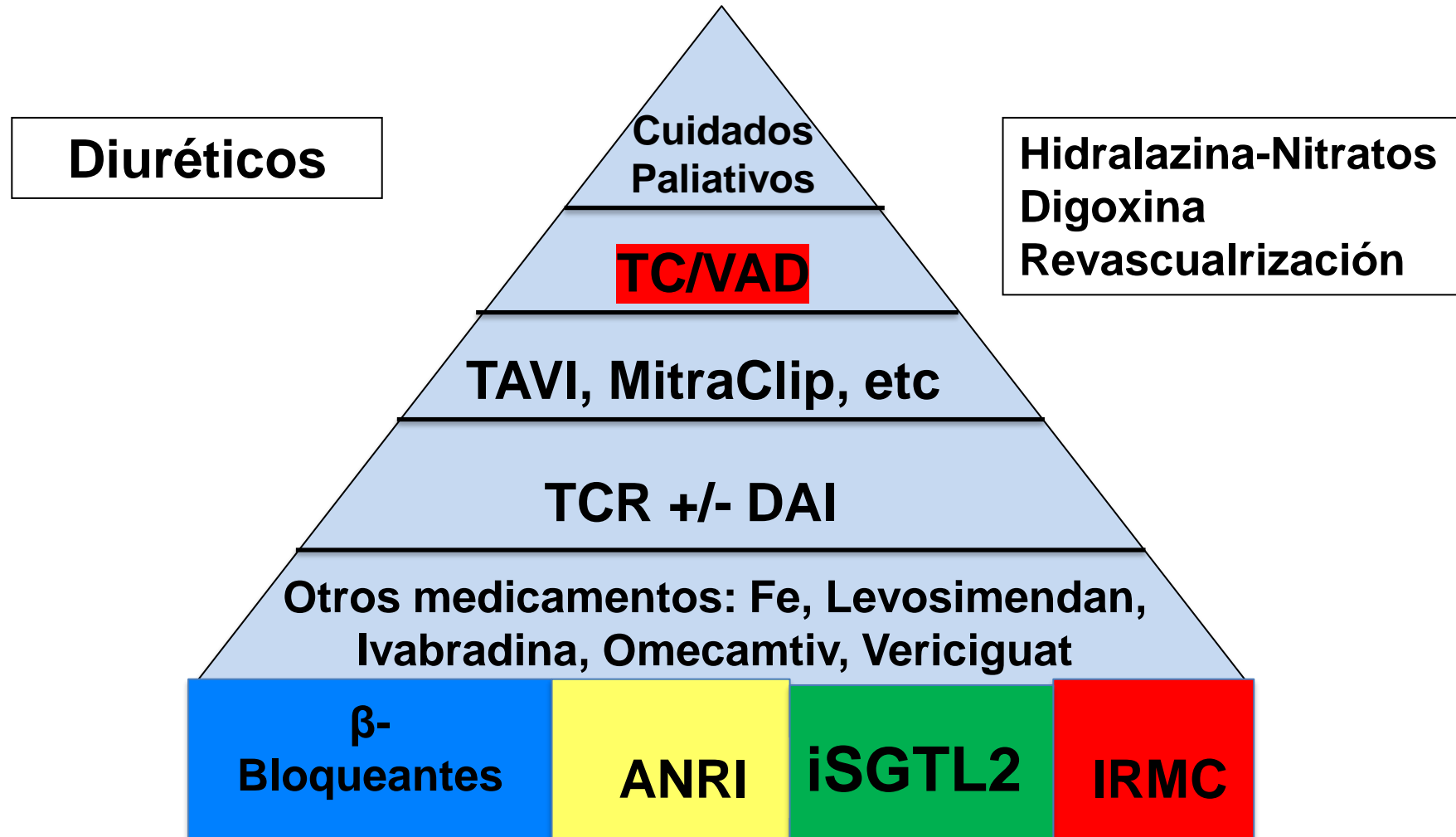


FE deprimida



Asistimos a una mejora del tratamiento

Pirámide del Tratamiento de la IC-FE reducida



The NEW ENGLAND
JOURNAL of MEDICINE

ESTABLISHED IN 1812

SEPTEMBER 11, 2014

VOL. 371 NO. 11

Angiotensin–Neprilysin Inhibition versus Enalapril
in Heart Failure

John J.V. McMurray, M.D., Milton Packer, M.D., Akshay S. Desai, M.D., M.P.H., Jianjian Gong, Ph.D.,
Martin P. Lefkowitz, M.D., Adel R. Rizkala, Pharm.D., Jean L. Rouleau, M.D., Victor C. Shi, M.D.,
Scott D. Solomon, M.D., Karl Swedberg, M.D., Ph.D., and Michael R. Zile, M.D.,
for the PARADIGM-HF Investigators and Committees*

Table 1. (Continued.)

Characteristic	LCZ696 (N = 4187)	Enalapril (N = 4212)
Treatments at randomization — no. (%)		
Diuretic	3363 (80.3)	3375 (80.1)
Digitalis	1223 (29.2)	1316 (31.2)
Beta-blocker	3899 (93.1)	3912 (92.9)
Mineralocorticoid antagonist	2271 (54.2)	2400 (57.0)
Implantable cardioverter–defibrillator	623 (14.9)	620 (14.7)
Cardiac resynchronization therapy	292 (7.0)	282 (6.7)

The NEW ENGLAND JOURNAL of MEDICINE

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NOVEMBER 21, 2019

VOL. 381 NO. 21

Dapagliflozin in Patients with Heart Failure and Reduced Ejection Fraction

J.J.V. McMurray, S.D. Solomon, S.E. Inzucchi, L. Køber, M.N. Kosiborod, F.A. Martinez, P. Ponikowski, M.S. Sabatine, I.S. Anand, J. Böhlhávek, M. Böhm, C.-E. Chiang, V.K. Chopra, R.A. de Boer, A.S. Desai, M. Diez, J. Drozd, A. Dukát, J. Ge, J.G. Howlett, T. Katova, M. Kitakaze, C.E.A. Ljungman, B. Merkely, J.C. Nicolau, E. O'Meara, M.C. Petrie, P.N. Vinh, M. Schou, S. Tereshchenko, S. Verma, C. Held, D.L. DeMets, K.F. Docherty, P.S. Jhund, O. Bengtsson, M. Sjöstrand, and A.-M. Langkilde, for the DAPA-HF Trial Committees and Investigators*

Table 1. (Continued.)

Characteristic	Dapagliflozin (N=2373)	Placebo (N=2371)
Heart failure medication — no. (%)		
Diuretic	2216 (93.4)	2217 (93.5)
ACE inhibitor	1332 (56.1)	1329 (56.1)
ARB	675 (28.4)	632 (26.7)
Sacubitril-valsartan	250 (10.5)	258 (10.9)
Beta-blocker	2278 (96.0)	2280 (96.2)
Mineralocorticoid receptor antagonist	1696 (71.5)	1674 (70.6)
Digitalis	445 (18.8)	442 (18.6)
Glucose-lowering medication — no./total no. (%)**		
Biguanide	504/993 (50.8)	512/990 (51.7)
Sulfonylurea	228/993 (23.0)	210/990 (21.2)
DPP-4 inhibitor	161/993 (16.2)	149/990 (15.1)
GLP-1 receptor agonist	11/993 (1.1)	10/990 (1.0)
Insulin	274/993 (27.6)	266/990 (26.9)

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*

Characteristics		Percutaneous Repair Group	Optimal Medical Treatment Group	P value
NTproBNP - ng/L	median [IQR]	3407 [1948; 6790]	3292 [1937; 6343]	0.97
Implantable cardioverter-defibrillator		90 (59.2%)	82 (53.9%)	0.42
Diuretics		151 (99.3%)	149 (98.0%)	0.62
Beta-blockers		134 (88.2%)	138 (90.8%)	0.57
ACE- inhibitor / ARB		111 (73.0%)	113 (74.3%)	0.55
Mineralocorticoid Receptor Antagonist		86 (56.6%)	80 (53.0%)	0.56
ARB and Neprilysin Inhibitor		14 (10.0%)	17 (12.1%)	0.70
Systolic Blood Pressure	mmHg mean (±SD)	109 ± 16	108 ± 18	0.78

MITRA-FR

Eur J Heart Fail. doi: 10.1002/ehf.1616.

Table S6. Medication use at baseline and during follow-up

	Device group N=302	Control group N=312	P-value
<u>Medications at baseline</u>			
Beta-blocker	91.1% (275/302)	89.7% (280/312)	0.58
ACEI, ARB or ARNI	71.5% (216/302)	62.8% (196/312)	0.02
- ACEI	45.7% (138/302)	36.9% (115/312)	0.03
- ARB	21.9% (66/302)	23.1% (72/312)	0.72
- ARNI	4.3% (13/302)	2.9% (9/312)	0.34
Mineralocorticoid receptor antagonist	50.7% (153/302)	49.7% (155/312)	0.81
Nitrate	6.3% (19/302)	8.0% (25/312)	0.41
Hydralazine	16.6% (50/302)	17.6% (55/312)	0.72
Nitrate plus hydralazine	5.0% (15/302)	5.8% (18/312)	0.66
Diuretic	89.4% (270/302)	88.8% (277/312)	0.80
Chronic oral anticoagulant, any	46.4% (140/302)	40.1% (125/312)	0.12
- Warfarin	31.1% (94/302)	28.2% (88/312)	0.43
- Direct acting oral anticoagulant	15.2% (46/302)	12.2% (38/312)	0.27
Aspirin	57.6% (174/302)	64.7% (202/312)	0.07
P2Y12 receptor inhibitor, any	25.2% (76/302)	22.8% (71/312)	0.48
- Clopidogrel	21.5% (65/302)	20.5% (64/312)	0.76
- Prasugrel	2.6% (8/302)	0.6% (2/312)	0.06
- Ticagrelor	1.0% (3/302)	1.9% (6/312)	0.51
- Prasugrel or ticagrelor	3.6% (11/302)	2.6% (8/312)	0.44
Statin	62.6% (189/302)	60.6% (189/312)	0.61

9 Burnett et al NMA of the Efficacy of Drug Treatments for HFrEF

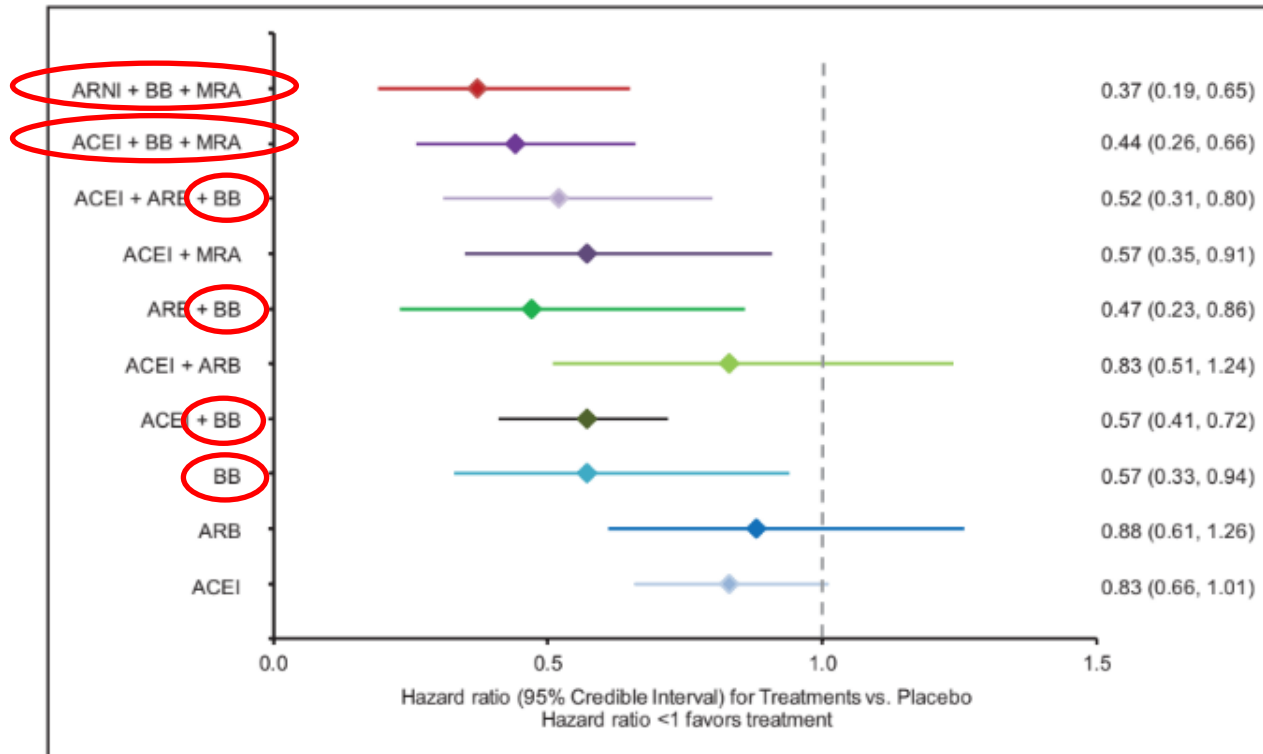


Figure 5. Results of random effect network meta-analysis for all-cause mortality: hazard ratios for intervention versus placebo for all-cause mortality and 95% credible intervals. ACEI indicates angiotensin-converting enzyme inhibitor; ARB, angiotensin-II receptor blocker; ARNI, angiotensin receptor-neprilysin inhibitor; BB, beta blocker; and MRA, mineralocorticoid receptor antagonist.

(Circ Heart Fail. 2017;10:e003529. DOI: 10.1161/CIRCHEARTFAILURE.116.003529.)

NNT (Number Needed to Treat for all-cause mortality)

Evidence-Based Therapy	Clinical Trial	Relative Treatment Effect (Hazard Ratio)	Estimated 5-y Risk, %			Estimated 5-y NNT for All-Cause Mortality
			Control Group	Intervention Group	Difference	
ACEI	SOLVD ³	0.84	43.8	38.3	5.5	18
ARB	CHARM-Alternative ⁸	0.87	40.5	36.3	4.2	24
β-Blocker	MERIT-HF ⁴	0.66	42.3	30.4	11.9	8
MRA	EMPHASIS-HF ⁵	0.78	35.8	29.3	6.5	15
ICD	SCD-HeFT ⁶	0.77	36.1	28.9	7.2	14
CRT	RAFT ⁷	0.75	32.4	25.4	7.0	14
ARNI	PARADIGM-HF (vs enalapril) ¹	0.84	36.7	31.9	4.8	21
ARNI	PARADIGM-HF (vs imputed placebo) ²	0.72	41.3	31.9	9.4	11

Optimal dose of BB is limited unless.....you implant a device

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Sociedad Asturiana
de **Cardiología**











¡Muchas Gracias!
¡Hasta siempre!