How can our hospitals benefit from PC? A cardiology perspective

Manuel Martínez-Sellés



CV diseases are the main reason for PC

How to detect pts that benefit from PC? Symptoms Prognosis

Specific situations. Drug withdrawal, ICDs, DNR

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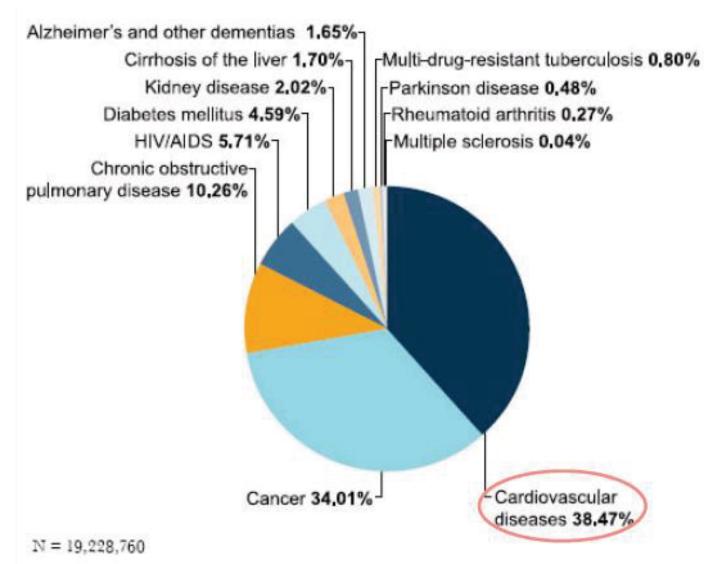
 There are higher levels of physical and mental distress in patients dying from heart failure than with cancer

Hinton JM. The physical and mental stress of dying. Q J Med 1963

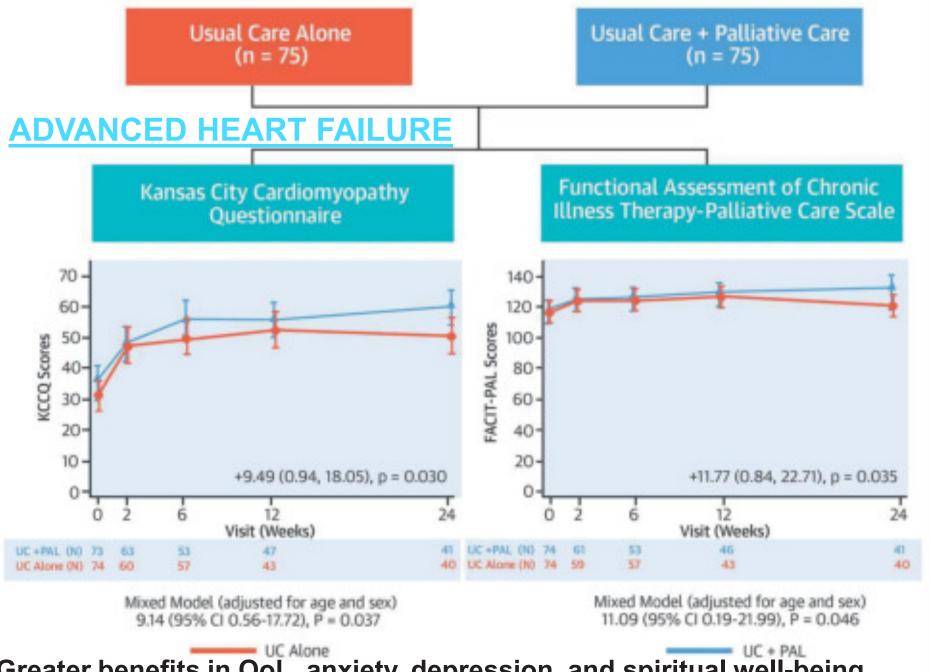
More than 55 years ago they already knew it!



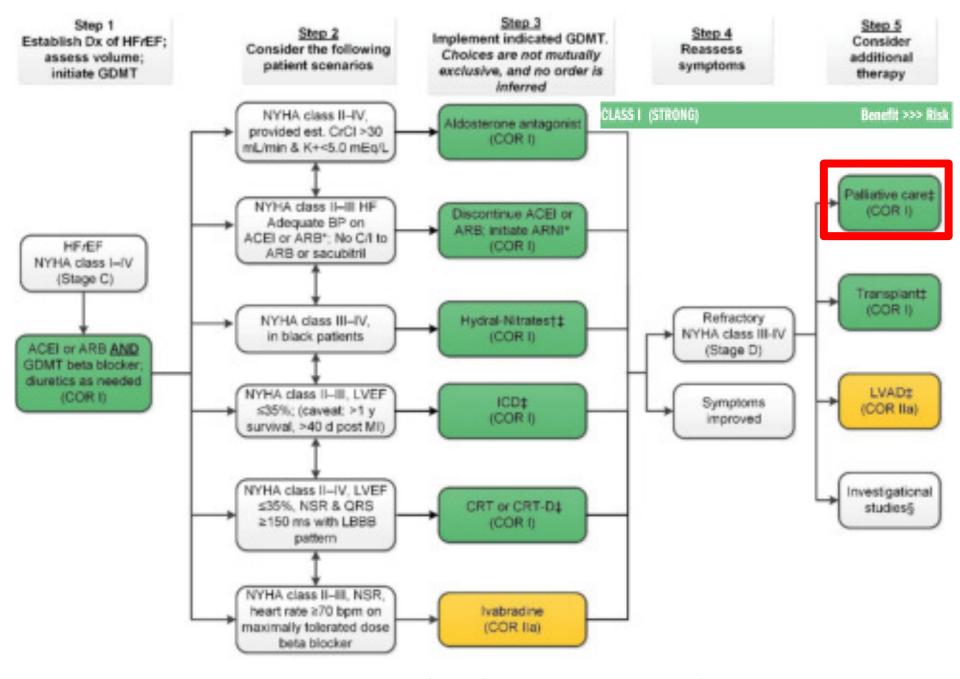
Adults in need of palliative care



WHO and Worldwide Palliative Care Alliance: Global Atlas of Palliative Care at the End of Life 2014



Greater benefits in QoL, anxiety, depression, and spiritual well-being Rogers JACC 2017



2017 Focused Update American Guidelines

Key components of palliative care in heart failure

- Focus on quality of life (patient and family)
- Assessment of symptoms (dyspnea and pain)
- Psychological support and spiritual care
- Advanced care planning, place and resuscitation

How to discuss: SPIKES

S etting	Privacy Involve significant others Sit down Look attentive and calm Adopt listening mode
Perception	Before you tell, ask Assess the gap between the patient's expectations and the actual medical situation
Invitation	Do not assume that all patients want to know all Ask about preferences regarding information
Knowledge	Give a warning that bad news is coming Give the information in small chunks Use clear language
Empathy	Acknowledge and address the patient's emotions Let them know that showing emotion is normal
Strategy and summary	 Ensure that the patient understands the information Summarise the information and give an opportunity for the patient to voice concerns

Martínez-Sellés Eur J Pall Care 2017

When to start the discussion?

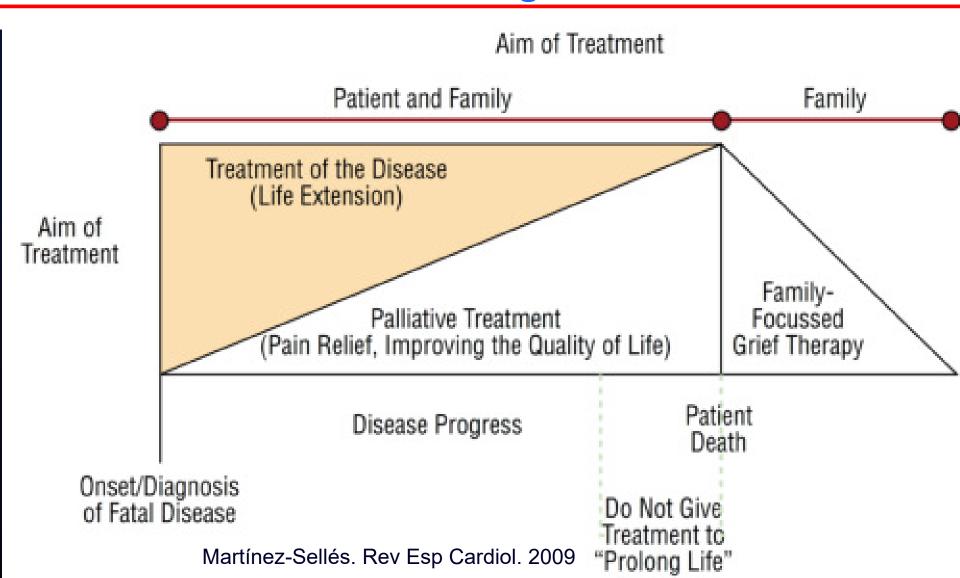
- **◆** At the time of diagnosis
- **♦ If functional class progresses**
- During admission/exacerbation
- **♦ In routine consultation**
- **ANY TIME! IT IS A PROCESS**





START SOON Palliative Care # Last Day Care

"end of life care" → "living with serious illness"



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How to detect pts that benefit from PC? Symptoms Prognosis

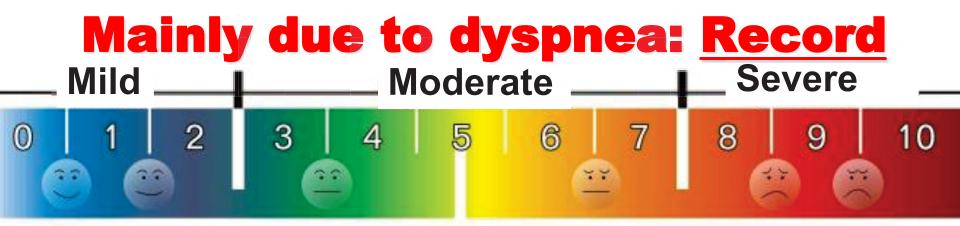
Specific situations. Drug withdrawal, ICDs, DNR.

1) Assess Symptoms

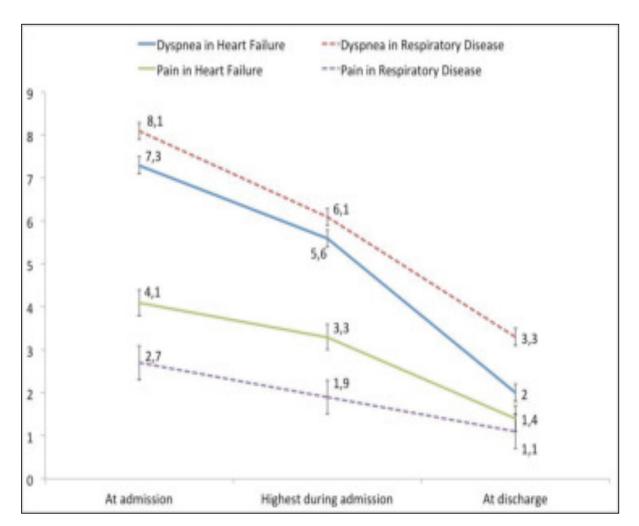
Pts with HF have severe symptoms

	Cancer	COPD	Renal failure	Heart failure
Fatigue Pain Nausea/vomiting Dyspnea	23-100%	32-96%	13-100%	42-82%
	30-94%	21-77%	11-83%	14-78%
	2-78%	4%	8-52%	2-48%
	16-77%	56-98%	11-82%	18-88%
Insomnia	3-67%	15-77%	1-83%	36-48%
Confusion/Delirium	2-68%	14-33%	35-70%	15-48%
Diarrhea	4-64%	12-44%	8-65%	12-42%
Depression Anxiety	1-25% 4-80% 3-74%	17-77% 23-53%	8-36% 2-61% 7-52%	12% 6-59% 2-49%

Ruiz J, Canal I, Martínez-Sellés M. Rev Clin Esp 2017



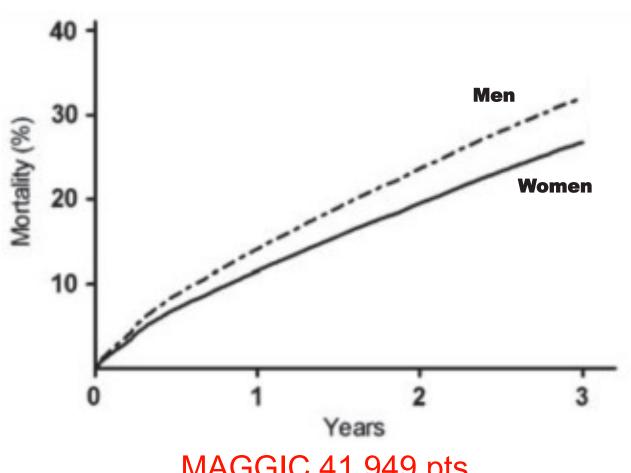
Hospital without dyspnea. Rationale and design of a multidisciplinary intervention. Vicent, Nuñez, Puente, Artajona, Fdz-Avilés, Martínez-Sellés. J Geriatr Cardiol 2016



◆ Degree of dyspnea at admission and discharge in patients with heart failure and respiratory diseases. L Vicent, JM Nuñez, L Puente, A Oliva, JC López, A Postigo, I Martín, R Luna, F Fernández-Avilés, M Martínez-Sellés. BMC Palliative Care 2017

2) Assess Prognosis

HF = Poor Prognosis



MAGGIC 41.949 pts

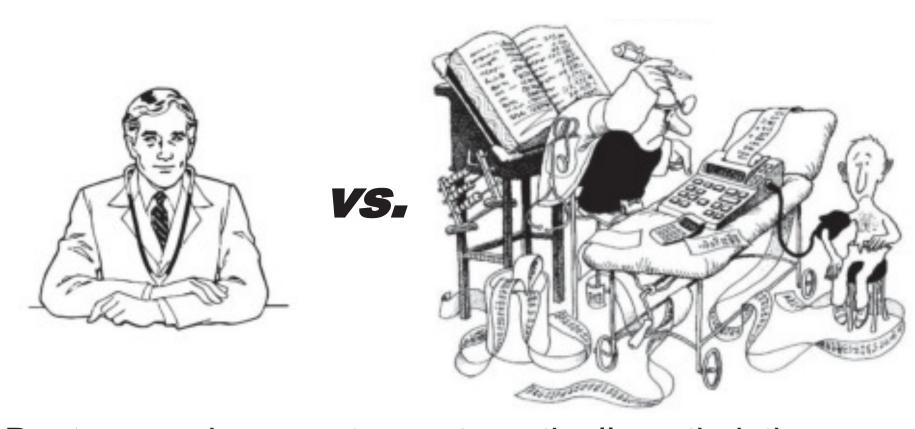
Clinical Judgement vs. Scores



VS.



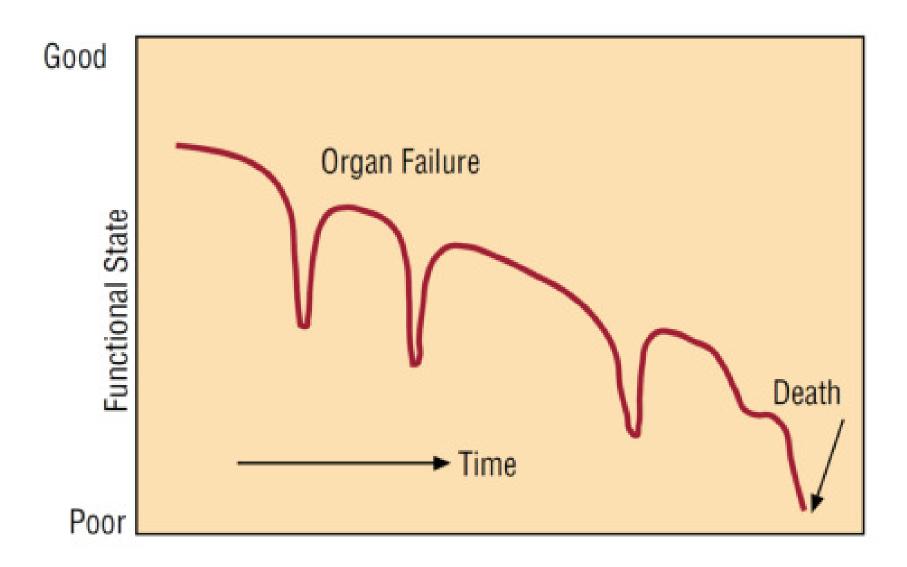
Clinical Judgement vs. Scores



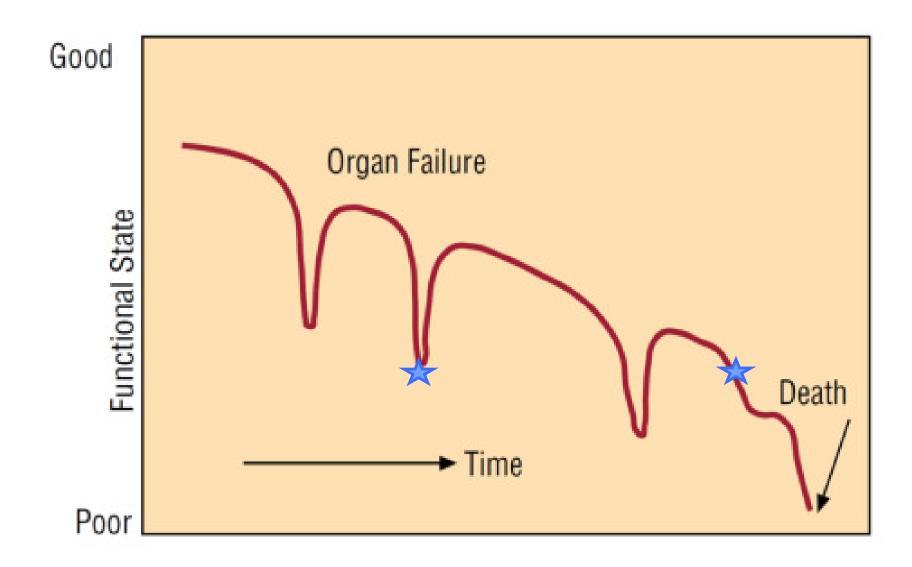
- Doctors are inaccurate, systematically optimistic
- Doctors overestimate survival by a factor of <u>5.3</u>
- Long doctor-pt relationship=lower prognosis accuracy

Christakis BMJ 2000

Evolution difficult to predict



Evolution difficult to predict



Prognostic Scores

- NHPCO NHO 1996
- EFECT
 Lee DS JAMA 2003
- DIG
 Brophy JM Am J Med 2004
- CHARM
 Pocock SJ Eur Heart J 2006
- Seattle Heart Failure Model Levy WC et al. Circulation 2006 http://www.SeattleHeartFailureModel.org
- Simple Four-Item Risk Score

 Huynh BC J Am Geriatr Soc 2008
- MAGGIC Heart Failure Model

Pocock Eur Heart J 2013 http://www.heartfailurerisk.org/

BCN Bio HF calculator

Bayes Genis 2015 ww2.bcnbiohfcalculator.org/

MAGGIC Heart Failure Model

http://www.heartfailurerisk.org/

	Patient Re	ference	
		Age	
		Gender	Female 💌
○ Yes	○ No	liabetes	
○ Yes	○ No	COPD	
	ailure diagno	sed with	in the last 18 month

NYHA Class 1 💌
Receives beta blockers ○ Yes ○ No
Receives ACEi/ARB
BMI calculate BMI
Systolic blood pressure
Creatinine
Ejection fraction

BCN Bio HF calculator

Clinical Variables	Treatments	Biomarkers
Age, years*	Loop diuretic, mg/d * Furosemide	hs-cTnT, ng/L (pg/mL)
Sex *	Torasemide	ST2, ng/mL
NYHA functional class *		NT-proBNP, ng/L (pg/mL)
la, mmolit.	Statin *	
GFR, ml/min/1.73m2	Beta-blocker*	Risk of death
to, g/dL	ACEI or ARE *	Risk of HF hospitalization
VEF, %	MRA*	Risk of death or HF hospitalization
F duration in months	ARN *	
Diabetes melitus *	CRT*	
No. of HF hospitalizations in	ICD * ⊚ Yes ® No	

♦ CV diseases are the main reason for PC

♦ How to detect pts that benefit from PC? Symptoms Prognosis

Specific situations. Drug withdrawal, ICDs, DNR

Drugs: Decision based on the aim Do not stop all cardiac medications

to reduce the burden of symptoms **KEEP**

to treat or prevent (chronic) illnesses RECONSIDER

◆If pts improve they may need new CV drugs and, in these cases, the withdrawing will be of PC drugs (opioids after dyspnea improvement)

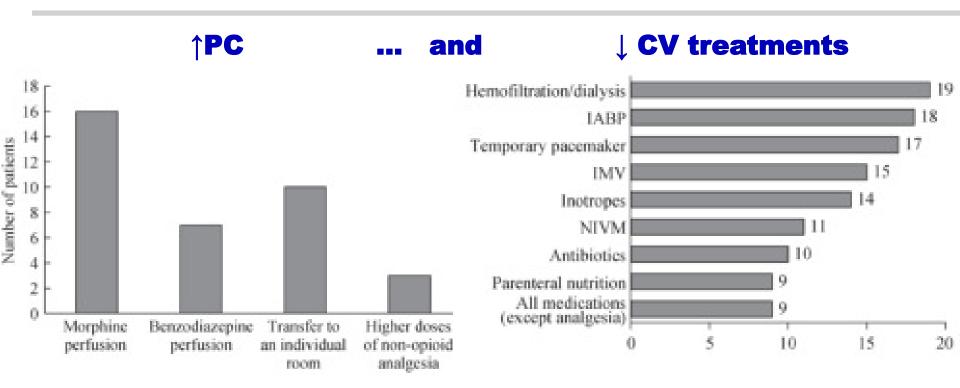


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Specific cases

- ◆ Diuretics: keep unless there is a clear reason to stop
- lacktriangle Drugs with long-term effects (as statins, aspirin, antihypertensives, β -blockers) make no sense
- ACE inhibitors: decision on individual bases
- **◆Inotropes may provide symptomatic benefit**
- Pt deteriorates and swallowing becomes difficult: keep only drugs that maintain comfort, sc options

Adjust therapy in parallel



Ruiz, Díez, Ayesta, Bruña, Figueiras, Gallego, Fdz-Avilés, Martínez-Sellés. J Geriatr Cardiol 2016

Do not forget ICDs (and DNR orders)

- Avoid the pain produced by shocks: deactivate!
- Maintain:
- ATP: well tolerated, avoids slow VT symptoms
- Pacemaker: avoids symptoms of low heart rate (dizziness, presyncope, dyspnea)
- Resynchr.: not painful, can improve symptoms

But...

only 1/2549 advance directives of deactivation



Medicina Paliativa



www.elsevier.es/medicinapaliativa



Revista Española de Geriatría y Gerontología



www.elsevier.es/regg



Revista Clínica Española

www.elsevier.es/rce

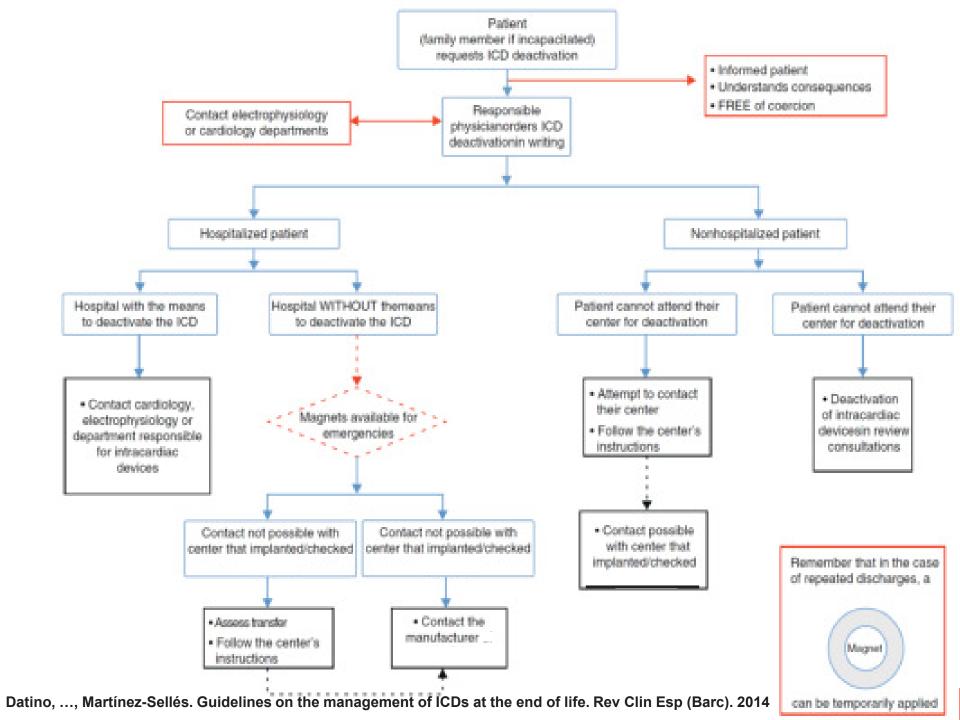


SPECIAL ARTICLE 2014

Guidelines on the management of implantable cardioverter defibrillators at the end of life*

- T. Datino^a, L. Rexach^b, M.T. Vidán^c, A. Alonso^d, Á. Gándara^e, J. Ruiz-García^f,
- B. Fontecha^g, M. Martínez-Sellés a.h.l.*

Martínez-Sellés Rev Esp Cardiol. 2015



Most patients die with a DNR order...

Estudios españoles que han analizado el porcentaje de pacientes que poseían una orden de no reanimación (ONR) en el momento de su fallecimiento

Estudio/Año de publicación	Año de fallecimiento	Servicio	Patologia	Fallecimientos	% ONR	ONR consensuada con paciente/familia
Bestué Cardiel et al. ¹⁹ /2002	1996-1997	Plantas médicas, UCI y urgencias	lctus agudo	165	10	0/100%
Formiga et al.23/2002	1999-2000	Medicina Interna	IC	118	32	3/25%
Formiga et al. ²⁴ /2003	2000-2002	Medicina Interna	Demencia (46%), IC (31%), EPOC (23%)	293	37	£7/57% د
Quintana et al.25/2005	2002	Varios	Varias	90	61	3/50%
Quintana et al.25/2005	2004	Varios	Varias	91	70	1/57%
Formiga et al. ³⁶ /2007	2004	Medicina Interna	IC (64%), demencia (36%)	102	89	£7/80%
Vilà Santasuana et al. ²⁷ /2008	No precisado (publicación remitida en 2007)	Medicina interna (25%), oncología (21%), cirugía (12%)	Neoplasias (45%), cardiovascular (16%), neurológica (16%)	401	87	<i>د۲/۱۷</i>
Martinez-Sellés et al. ²¹ /2010	2007-2009	Cardiología	IC (32%), IAM (28%), PCR recuperada (13%), shock cardiogénico (7%)	198	57	4/84%
Solis-García del Pozo et al. ²⁰ /2013	2011	Medicina interna	Varias	77	66	¿7/19%
Ruiz-Garcia et al 22/2015	2010-2012	Cardiología	Varias	197	69	4/90%

Ruiz, Canal, Martínez-Sellés Med Clin (Barc) 2016

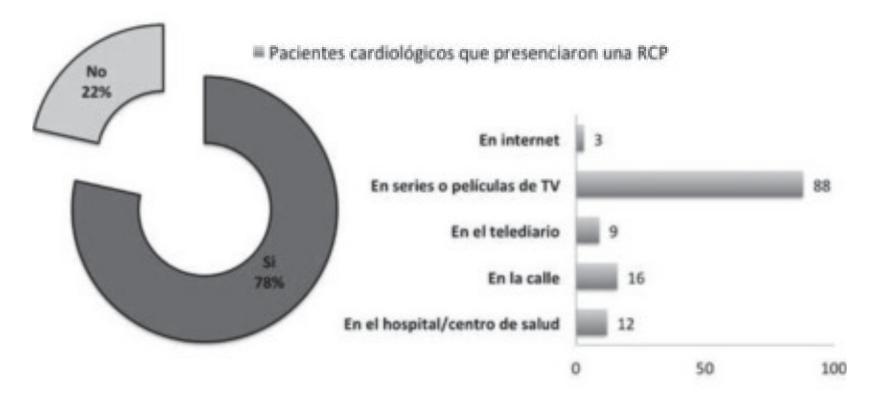
...and the main reason in Cardiology is HF...

Most HF pts (89%) want to receive resuscitation...

Ruiz J, Alegría E, Díez P, San Martín M, Canal I, Martínez-Sellés M. Rev Esp Cardiol 2016

...because TV is their main source of information

Ruiz J, Canal I, Ballester MS, Algora A, Alegría E, Martínez-Sellés M. Med Pal 2017



Relienar por médico responsable de ordan de ne resminor EN EL MORENTO DE TOMAR LA DECESSON

M. margarita

Designaria Manadata

Servicio de Cardiología

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Firmado (Nombre y Nº Colegiado):

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Demenda Avancado:	
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Sefalar si el parlents es portador de un MP:	
1) Auxiliance tran orden de NO RCP:	
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Otra (respectifican)	- 12

MOTA: codo 3 dias rubrique ser sa firma, nombre y número

to caso de encombar este PORMUTARRO COMPAZTADO es la carpeta del paciente, sersente case el PACIENTE HA SUDO CONSEDERADO - NO REANIMARLE?

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Conclusion

- Advanced heart failure requires palliative care
- Difficult to know prognosis = difficult decision
- Assess and control symptoms. Inform/share
- Evaluate therapies withdrawal and DNR