



Spain

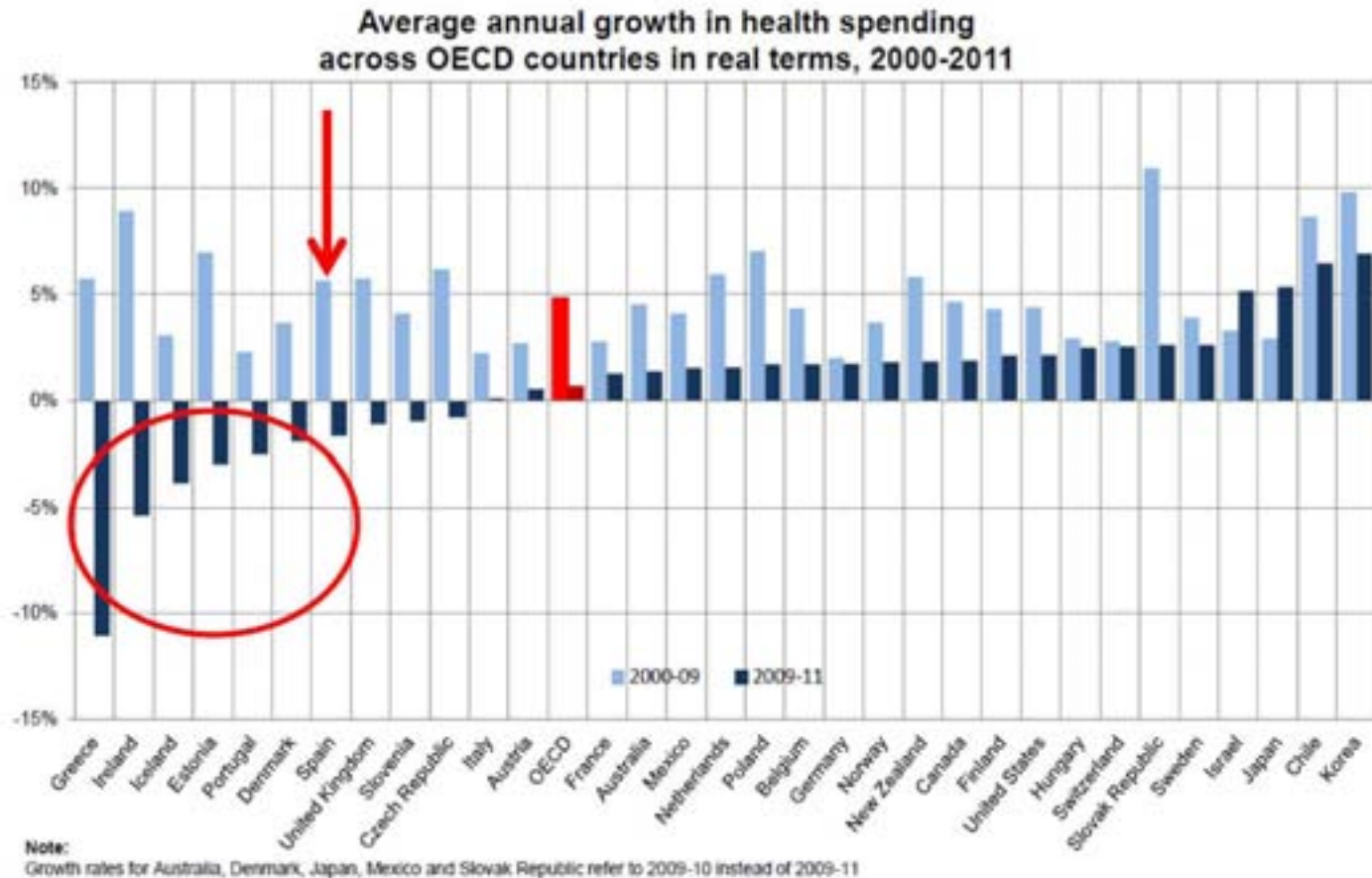
**The end of the welfare state:
Is it a reality in European
countries?**

**Consequences on Patient care in EP.
The view of the physicians.**

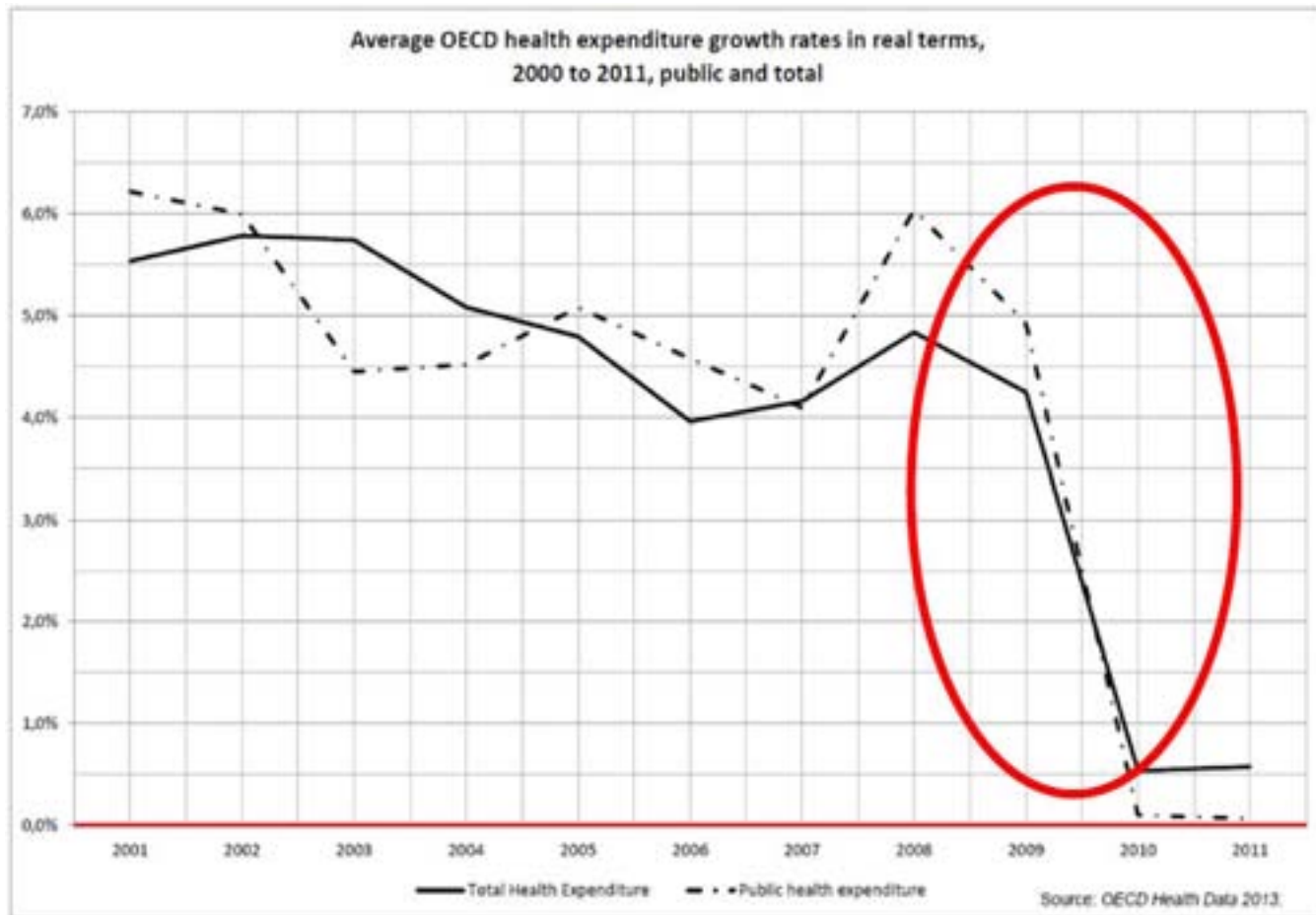
Jose Luis Merino Llorens.



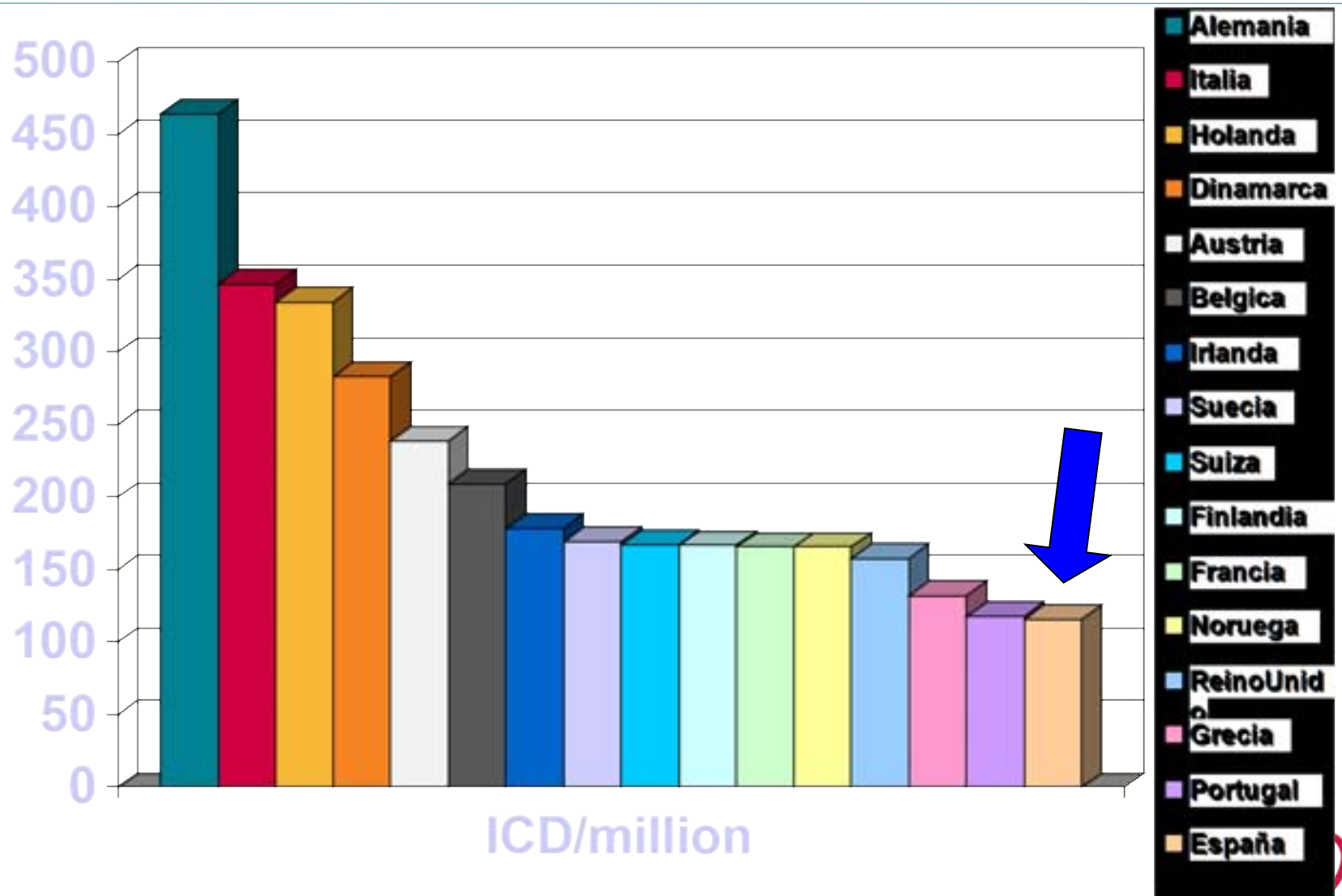
Health expenditure growth. 2000 - 2011



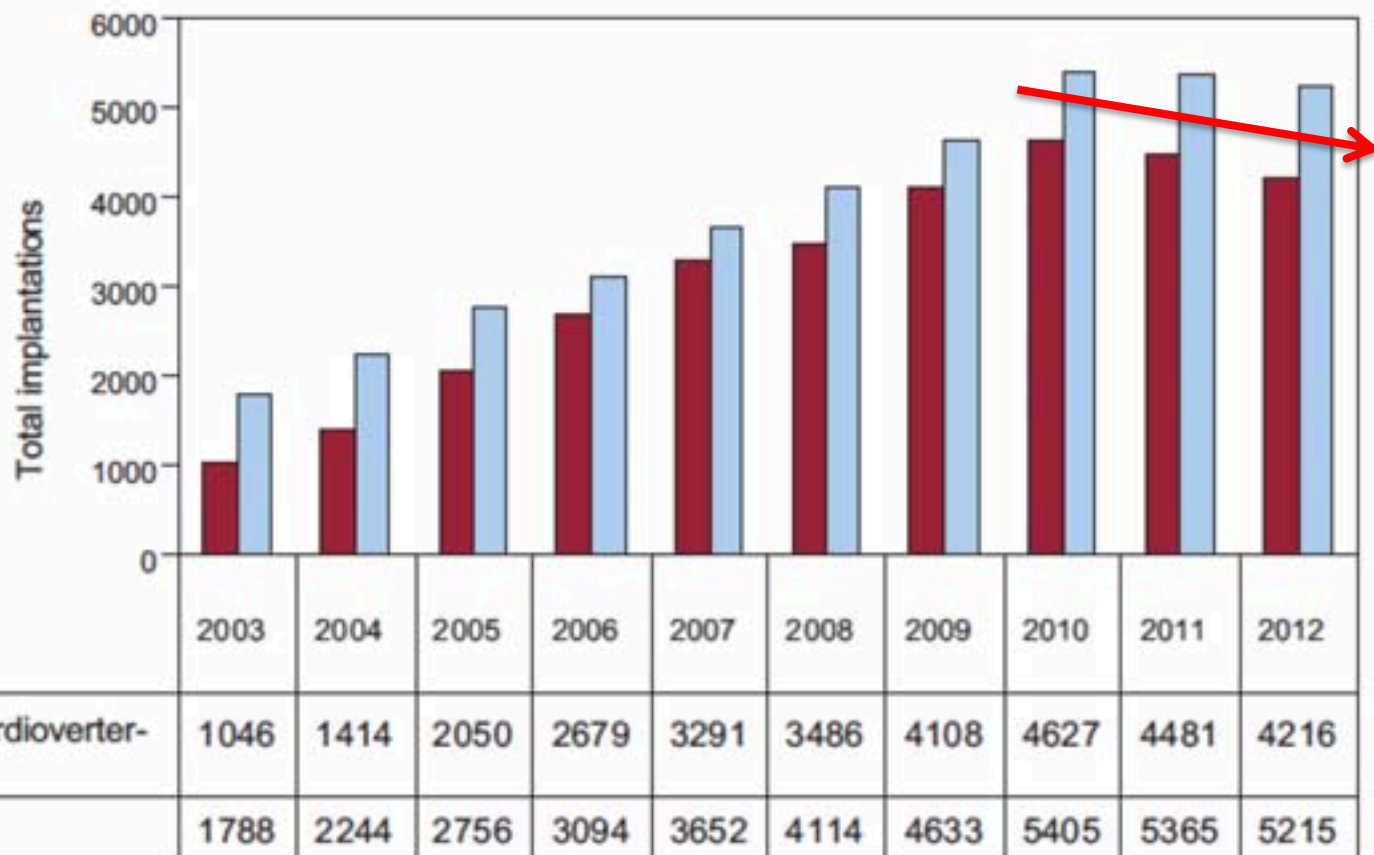
Health expenditure growth. 2000 - 2011



ICDs implants (EUCOMED)



Spanish Registry on ICD



Alzueta et al. Rev Esp Cardiol 2013

Table 4

Changes in the Main Indications for Implantable Cardioverter-defibrillator Placement (First Implantations, 2003-2012)

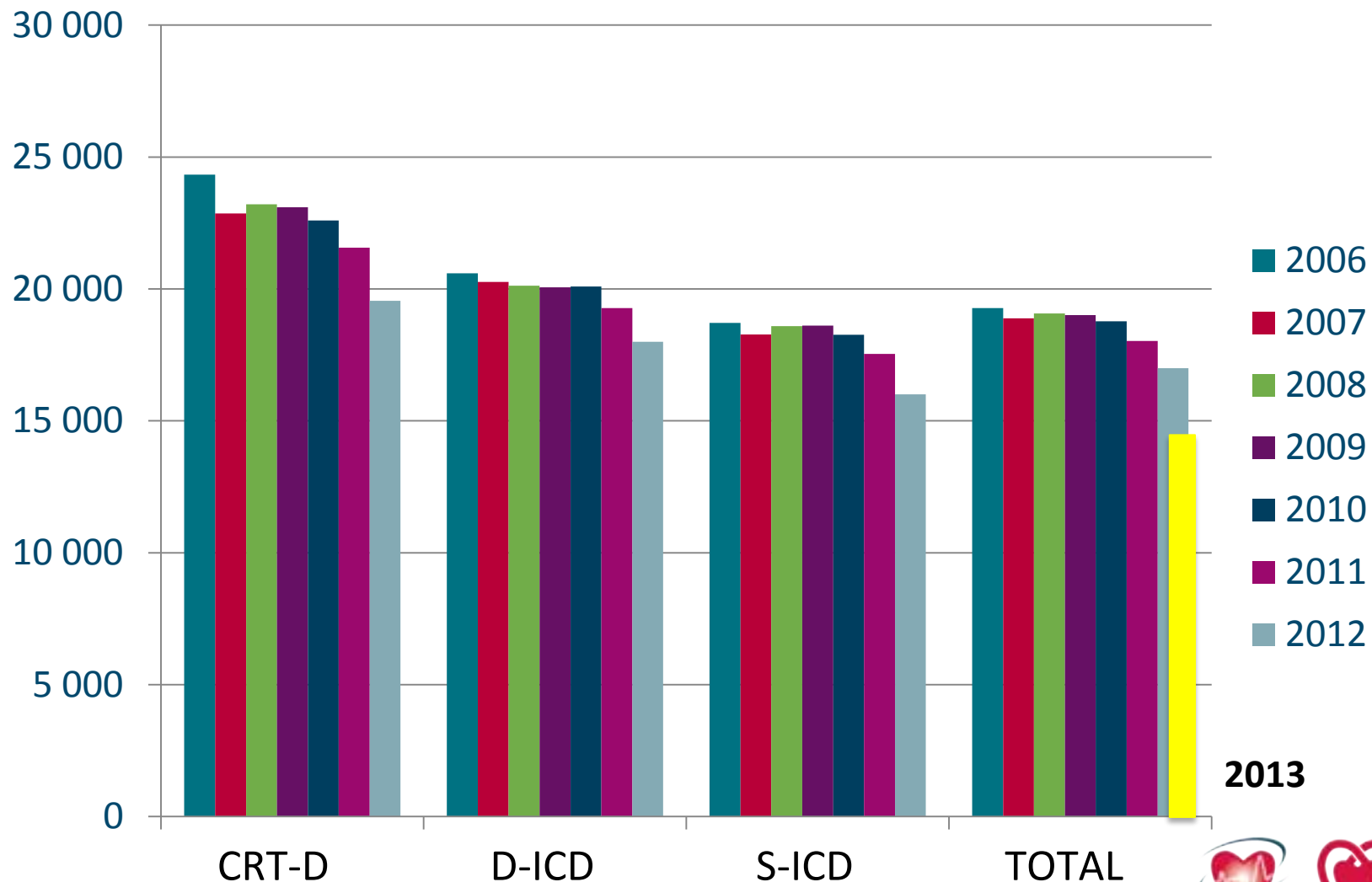
Year	SCD	SMVT	Syncope	Primary prevention
2003	13.7	2.8	14	29
2004	14.8	37	16	32.2*
2005	11.1	34.8	14.6	39.5*
2006	9.5	27	13.2	50.3*
2007	9.9	25	14.1	50.7*
2008	9.3	21.4	12.3	57*
2009	9.4	20.8	13.9	55.9
2010	10.9	20.6	11.1	57.1*
2011	10.7	15.1	14.6	59.4
2012	12.5	10.2	19.1	58.1

Flat

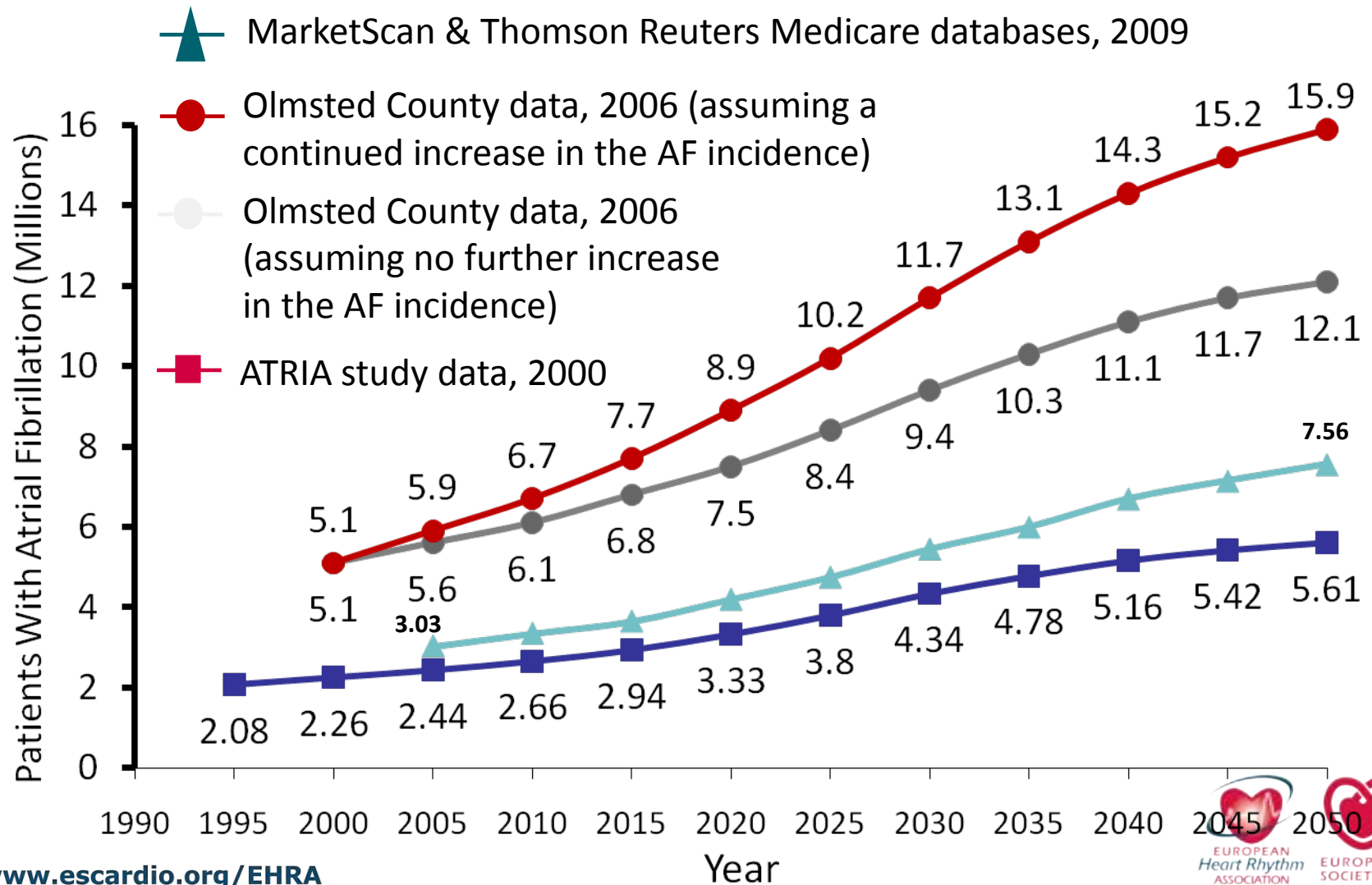
SCD, sudden cardiac death; SMVT, sustained monomorphic ventricular tachycardia.

* Significant difference compared to the previous year ($P < .01$).

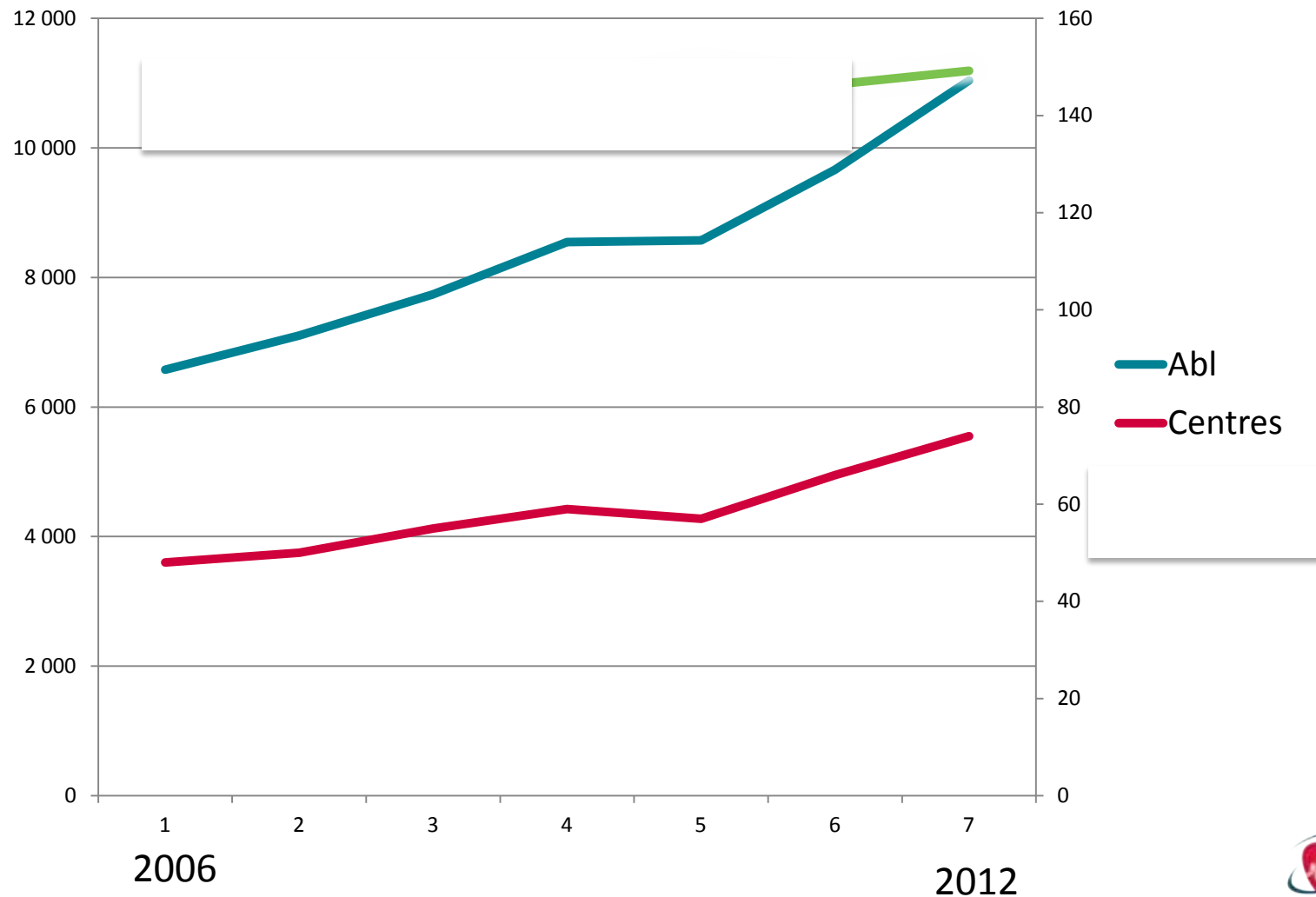
EUCOMED 2012 ICD prices



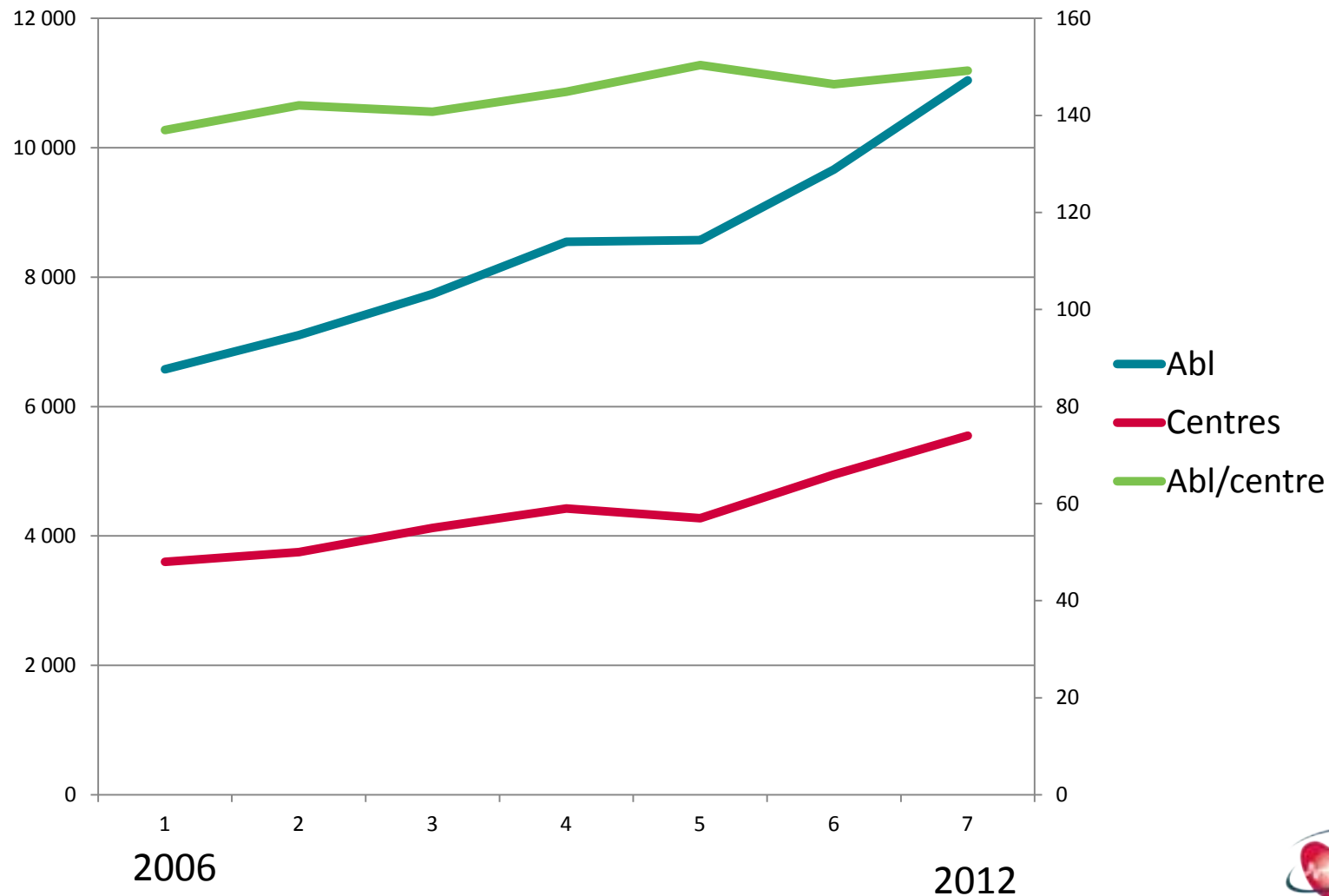
Projected Number of Patients With AF by 2050



Spanish Registry on Ablation



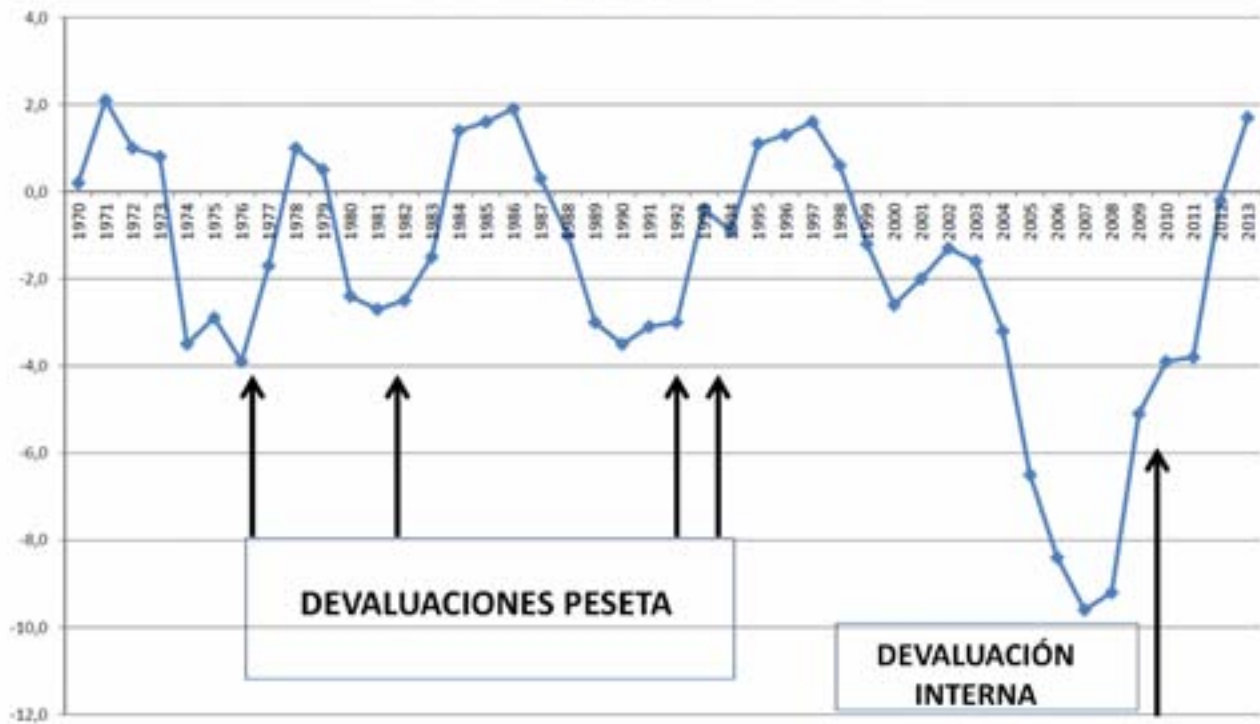
Spanish Registry on Ablation



The History

TRATAMIENTO (I): ACABADO

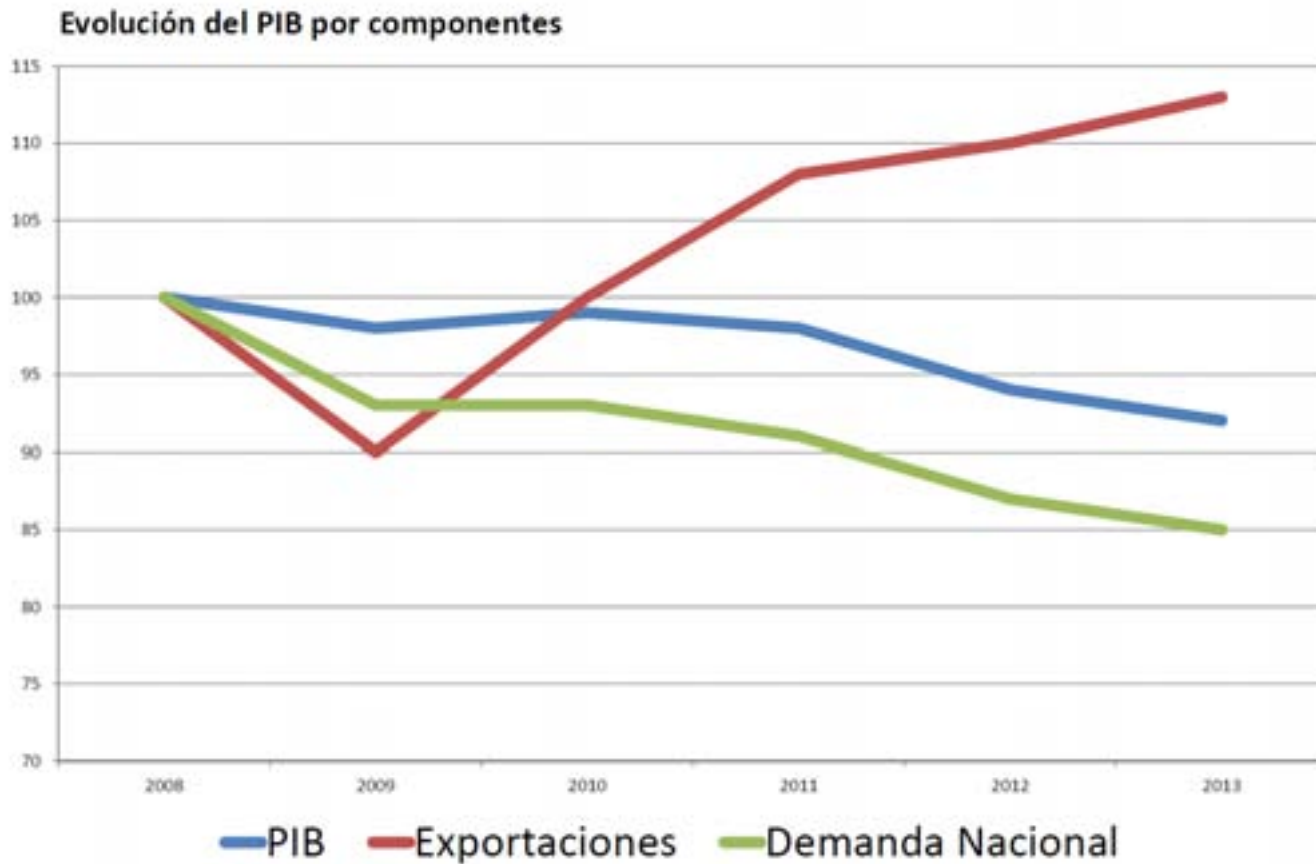
Capacidad o necesidad de financiación de la economía española, 1973-2013
(% del PIB)



Fuente: Elaboración propia con datos del INE . 2013 Previsión

JMSS (2014)

The History



Gross National Product. 2007 - 2014



Main barriers

- The Spanish Health care system is mainly funded by public funds.
- Hospitals receive a fixed budget from the government.
- There is no competition between centers.
- Doctors in the public sector receive a fixed salary and few incentives to do more procedures
- The strength of the public system (good quality) limits the development of the private sector.

Initiatives

- **The expense of the sanitary sector must be rationalized.**
- **Physicians must be jointly responsible for the expenses.**
- **The public system must be opened for the competition between the different hospitals and give priority to the most efficient**
- **The competition has to be facilitated also between the public and private sector.**

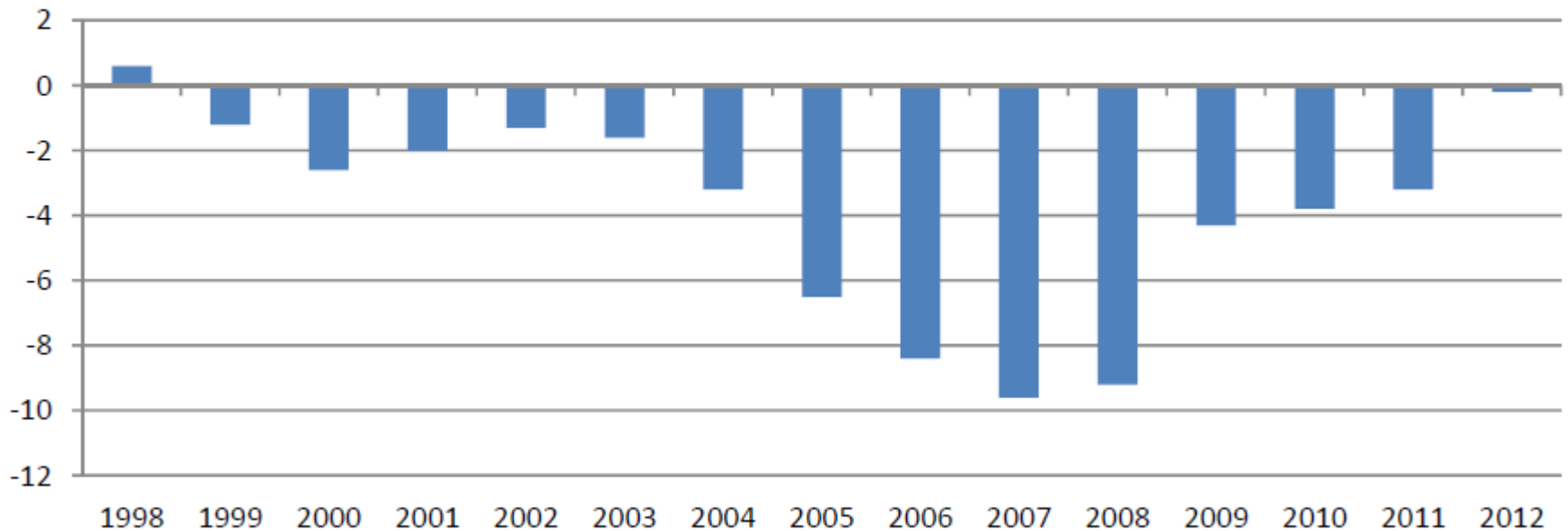


LAS CIFRAS BASICAS DE LA ECONOMÍA DEL SECTOR SANITARIO EN ESPAÑA

	1960	1985	2011	OCDE- 2011
GASTO SANITARIO EN % DEL PIB	1,5	5,4	9,3	9,3
GASTO SANITARIO PER CAPITA (en dólares PPP)	15,91	493,4	3.072	3.322
GASTO PUBLICO EN SANIDAD COMO % DEL GASTO SANITARIO	58,7	81,1	73,0	72,2
GASTO FARMACEUTICO COMO % DEL GASTO SANITARIO	--	20,4	17,3	16,4

The History

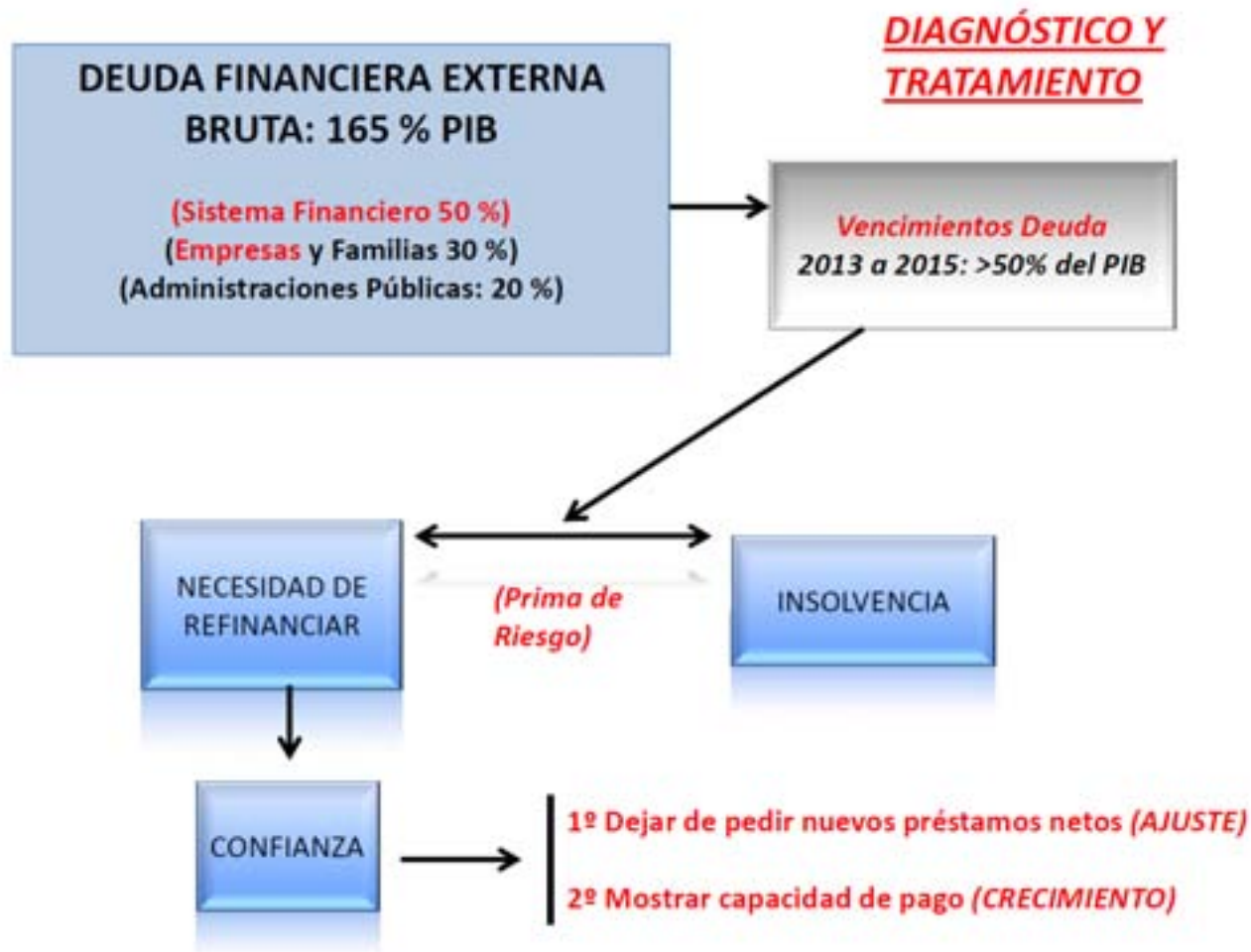
Capacidad o necesidad de financiación de la economía española (% del PIB)



The History

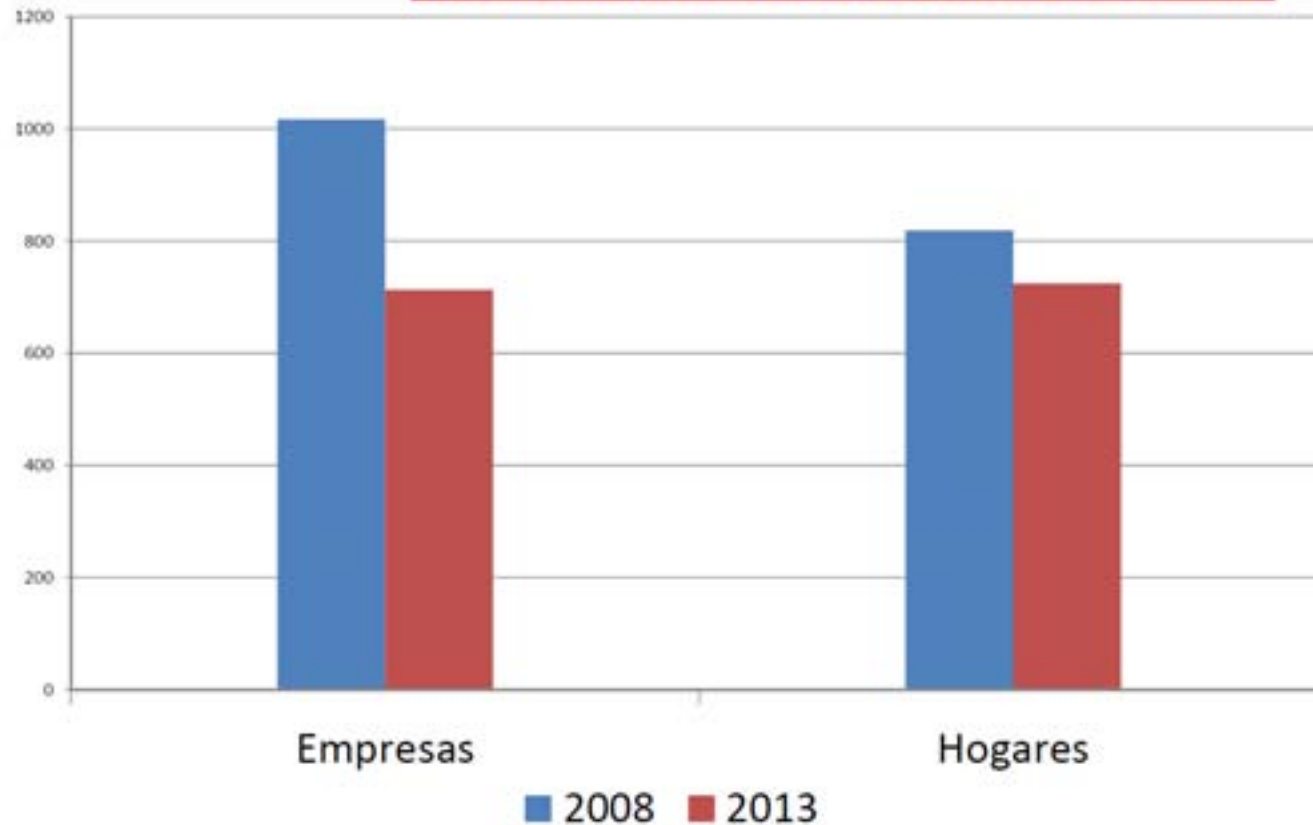


The History



The History

TRATAMIENTO (II) (Con riesgos) :
DESENDEUDAMIENTO V. DEMANDA INTERNA



The History

CONCLUSIONES

1. El gasto sanitario crece a largo plazo más que la economía, **pero a corto depende de la macroeconomía**

¿Y la macroeconomía española? ¿Cómo está?

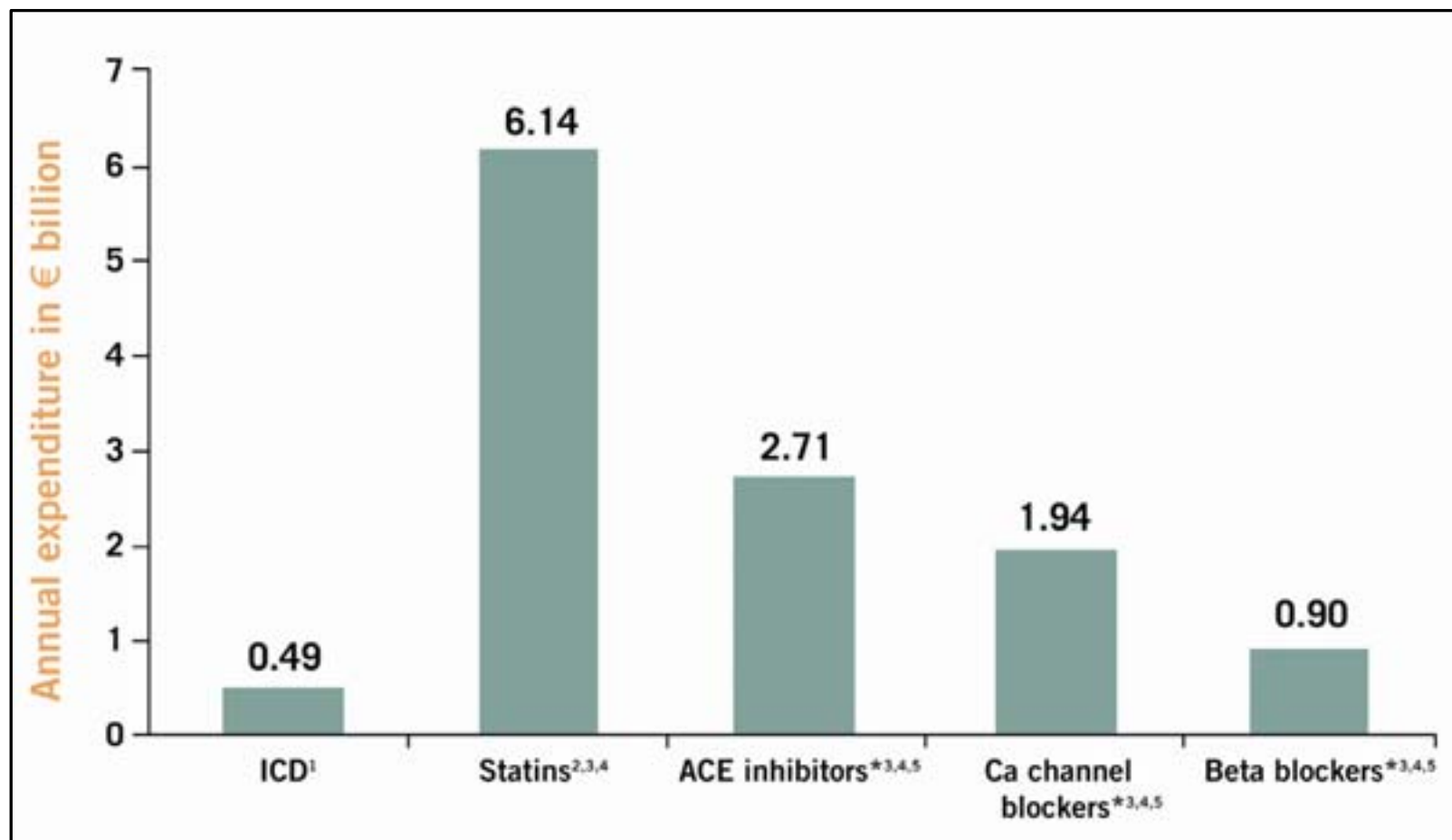
2. A pesar de las apariencias, el estado de la macroeconomía española no es estacionario. **Evoluciona favorablemente**

3. **Lo más difícil, el ajuste, se ha realizado.** Aunque a costa de familias y empresas. Es necesario reequilibrarlo

4. Un crecimiento sano es posible y **puede ser mejor de lo anunciado**

5. **Persisten riesgos:** las perturbaciones financieras y la inestabilidad social e institucional

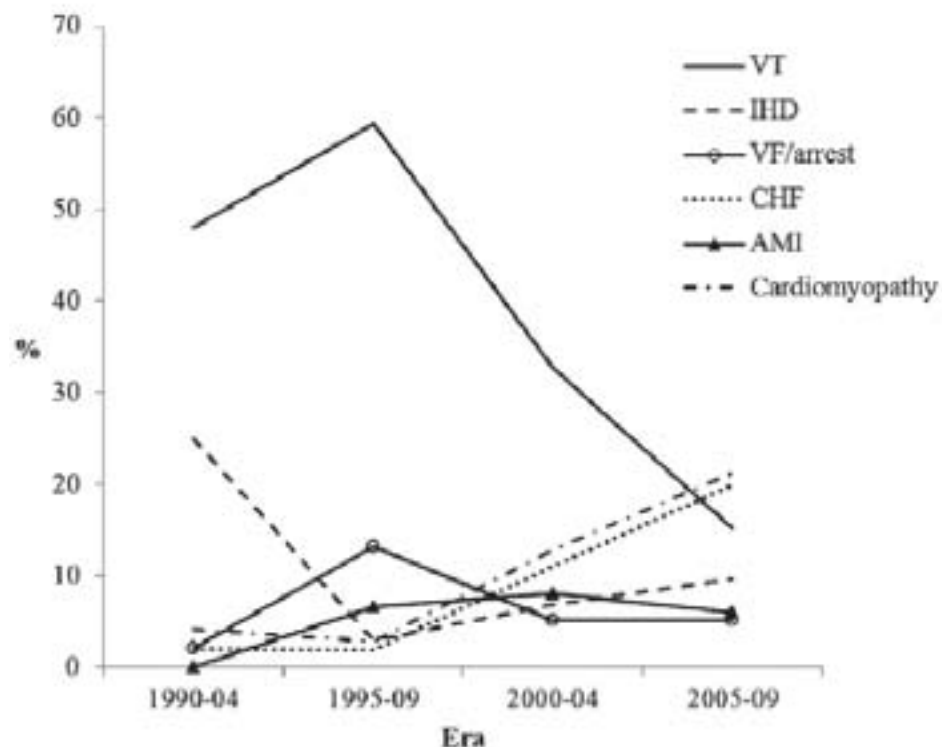
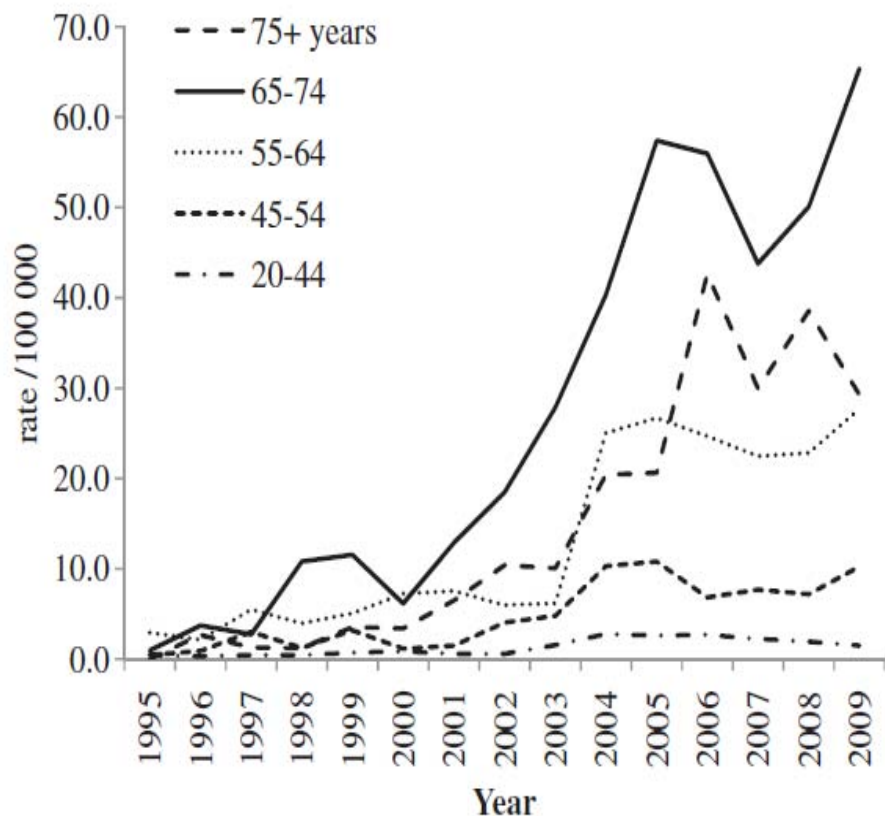
ICD Cost-effectiveness



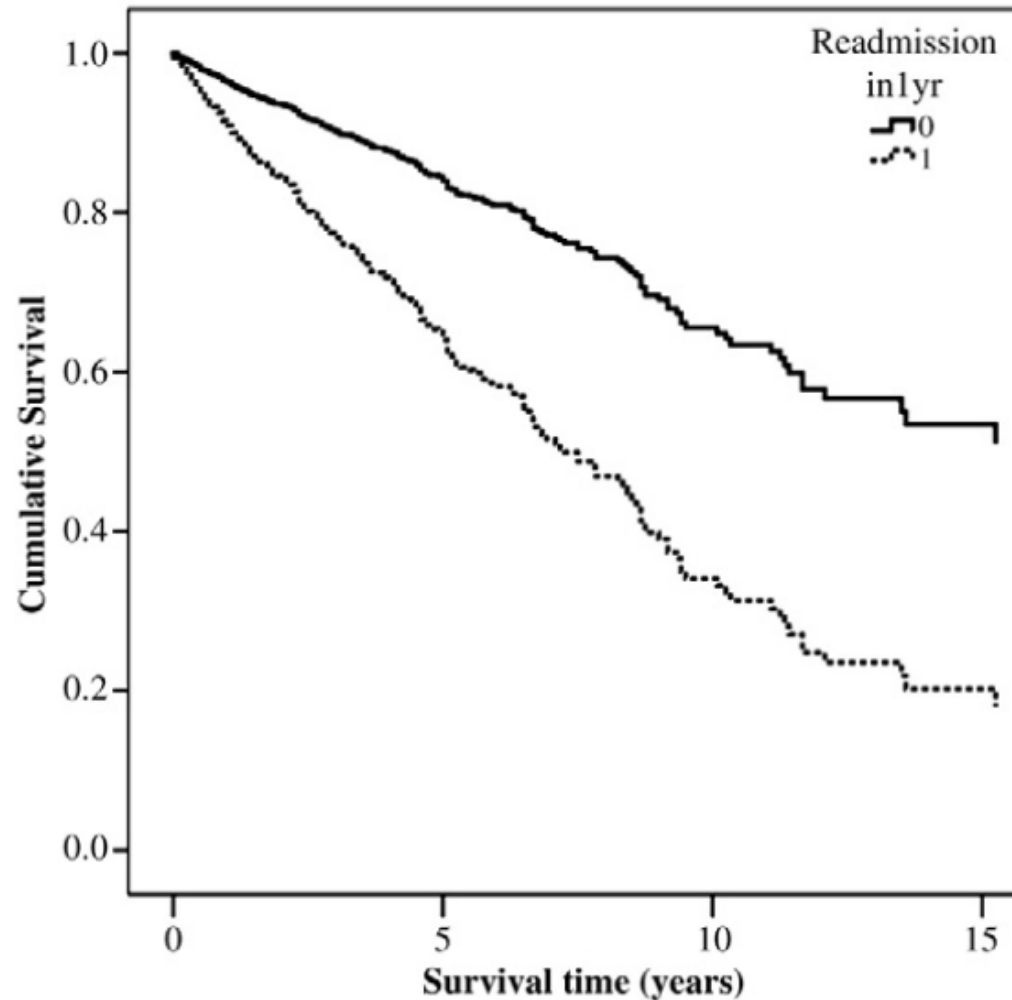
Source: ¹ Guidant estimates ² EURO-MED-STAT 2004,

³ Ministry of Health-Italy, ⁴ Prescription Pricing Authority-NHS UK, ⁵ OECD Health Working Paper 2003

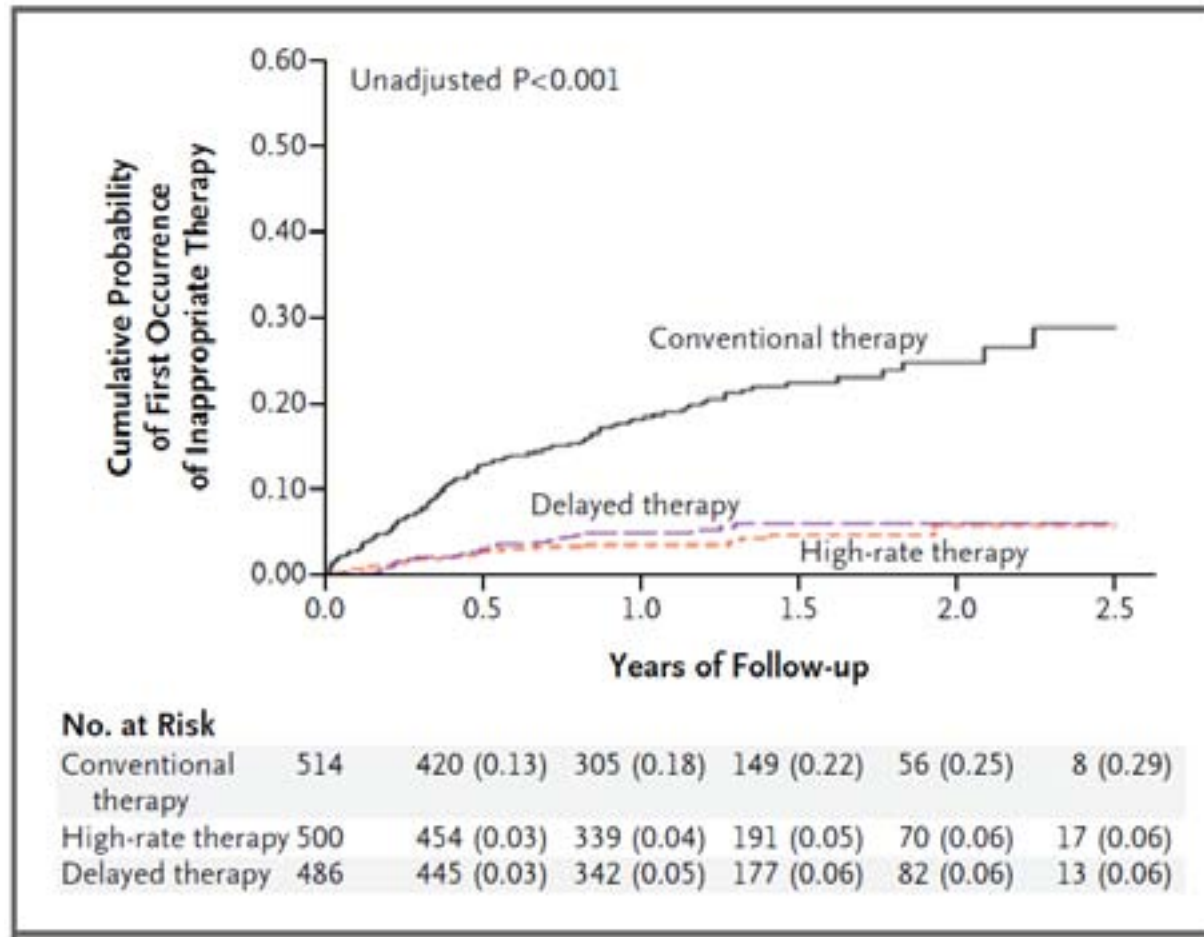
Use and long-term outcomes of implantable cardioverter-defibrillators, 1990 to 2009



Use and long-term outcomes of implantable cardioverter-defibrillators, 1990 to 2009

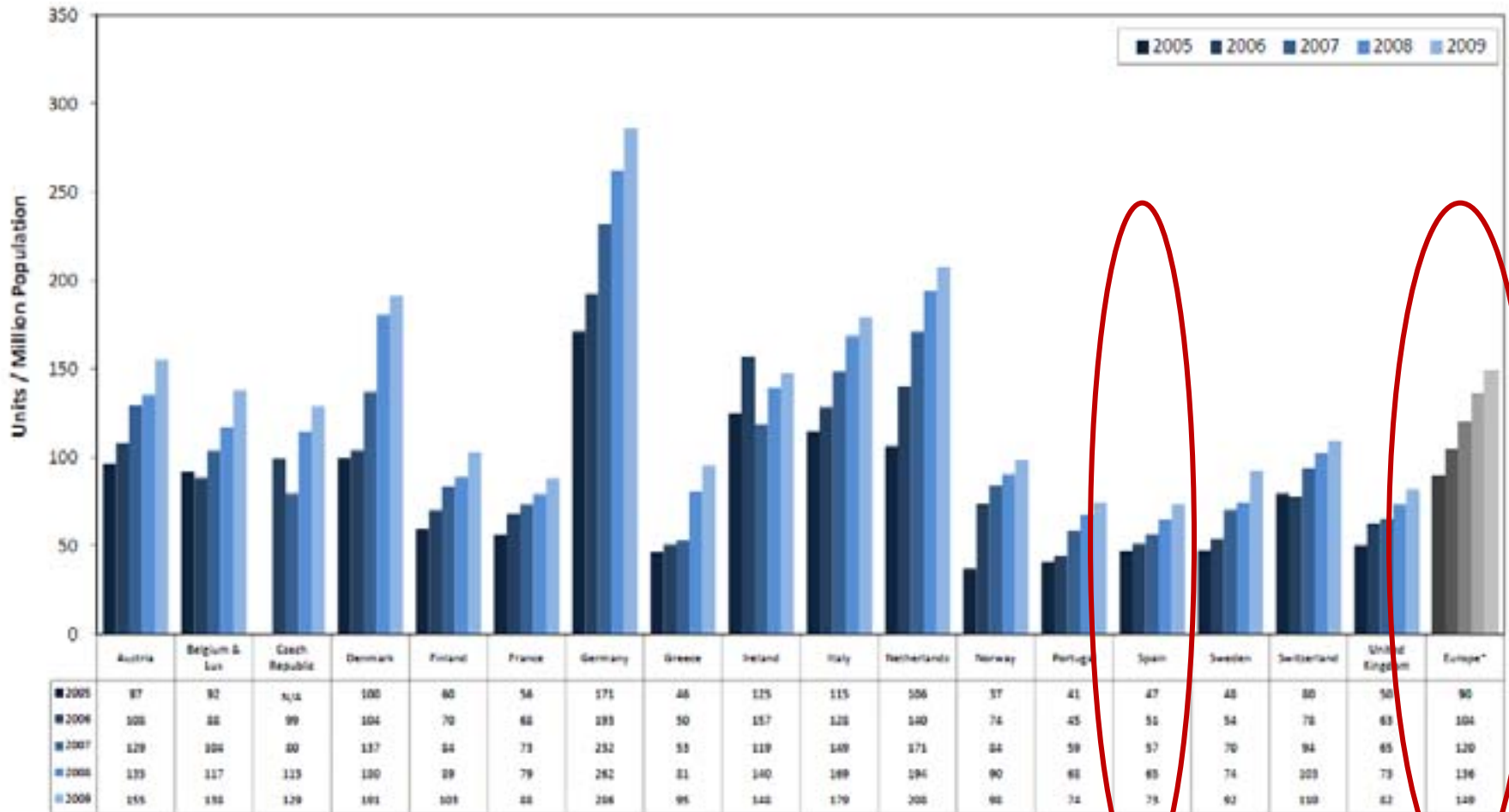


Reduction in Inappropriate Therapy and Mortality through ICD Programming

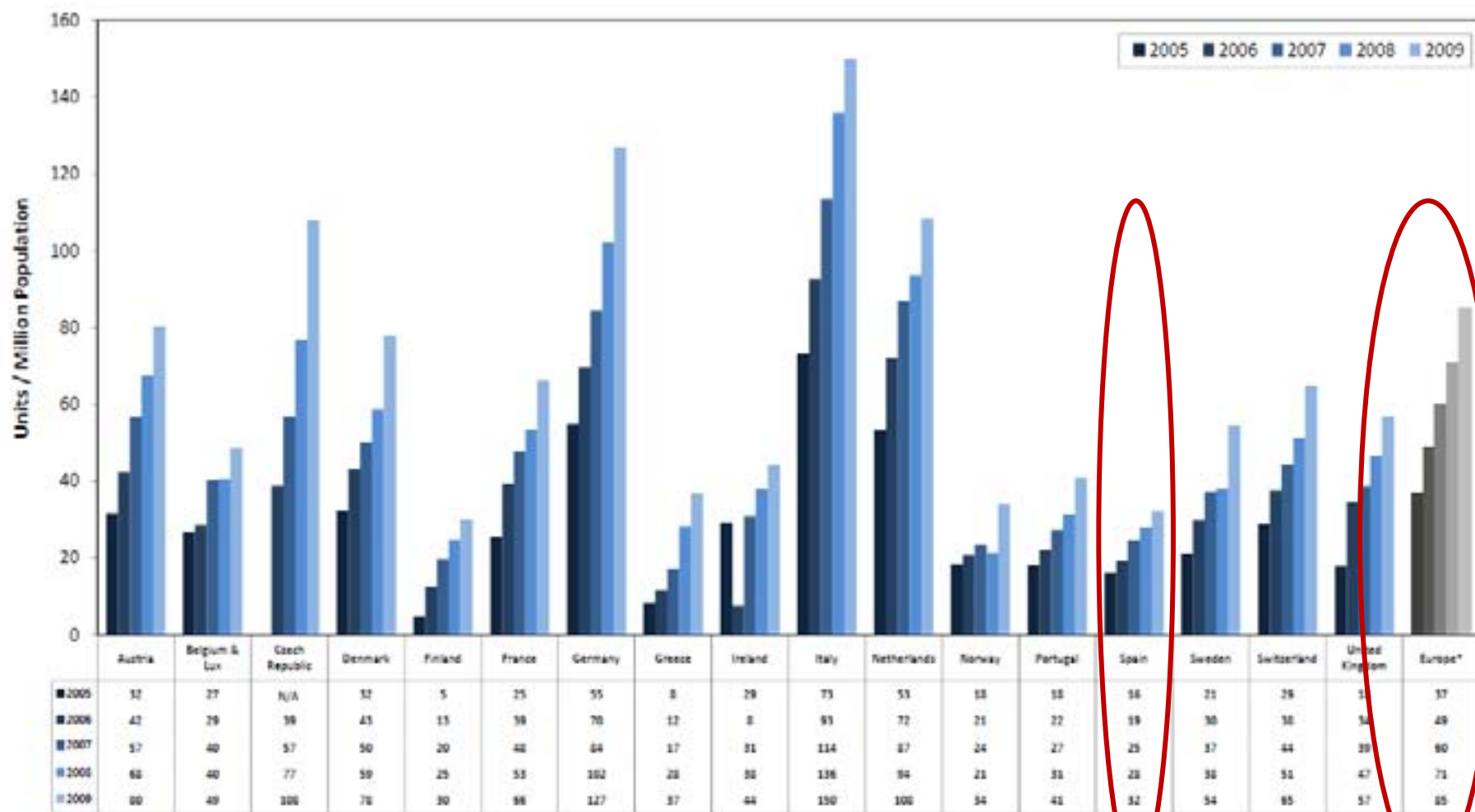


NEJM december 13, 2012

Defibrillators - Units per million inhabitants



CRT-D - Units per million inhabitants



Registro Español de Desfibrilador Automático Implantable. IX Informe Oficial de la Sección de Electrofisiología y Arritmias de la Sociedad Española de Cardiología (2012)



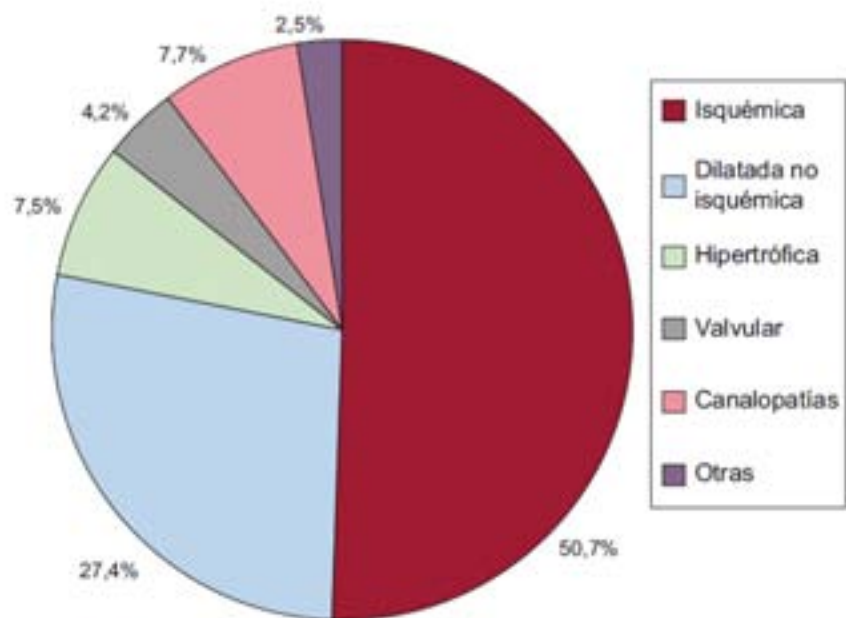
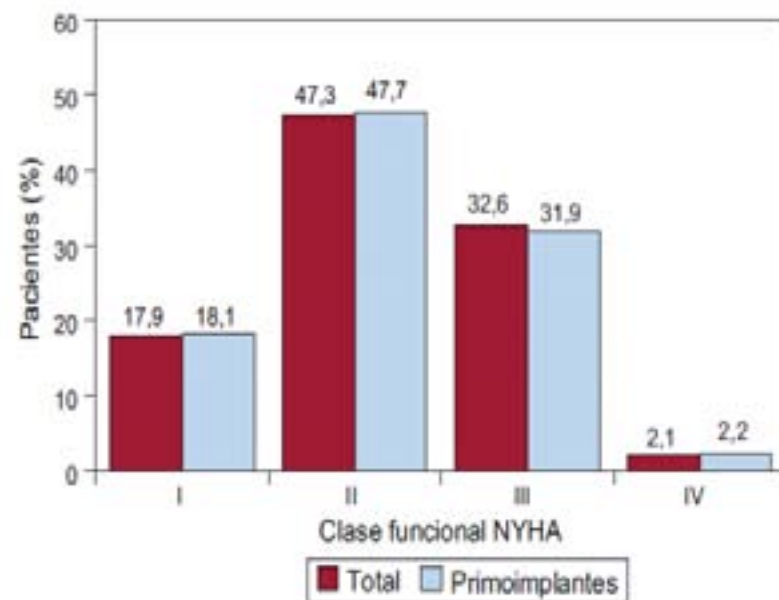


Figura 4. Tipo de cardiopatía que motivó el implante (primarioimplantes).



Registro Español de Desfibrilador Automático Implantable. IX Informe Oficial
de la Sección de Electrofisiología y Arritmias de la Sociedad Española
de Cardiología (2012)

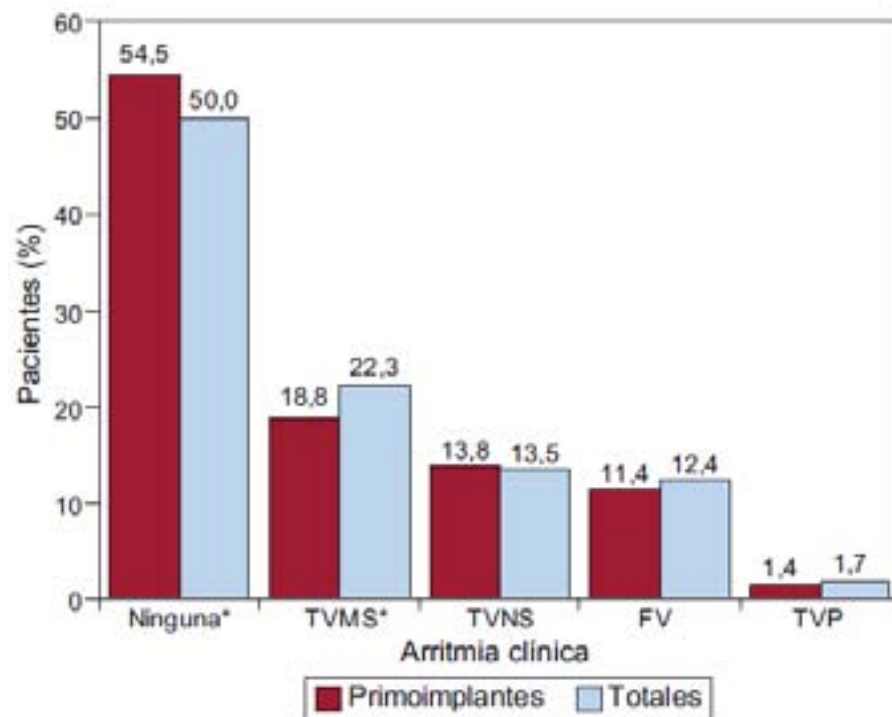
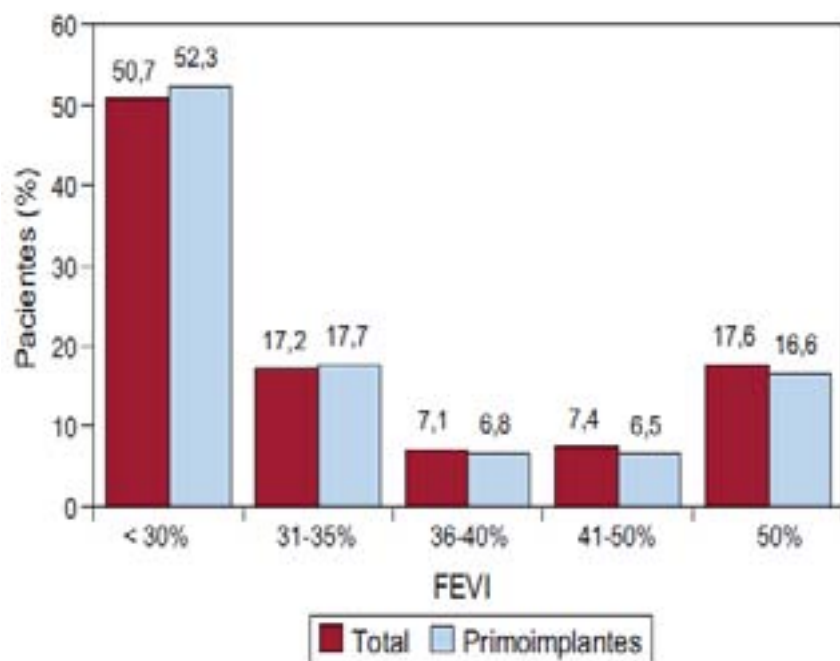


Tabla 5

Tipos de dispositivos implantados

	2010 totales	2011 totales	2012 totales	2012 EUCOMED	2012 primoimplantes
Monocameral	50,3	46,7	49,4	46,5	52,5
Bicameral	20,2	18,4	18,0	19,4	17,7
Resincronizador	28,2	34,9	32,5	34,1	30,0

EUCOMED: *European Medical Technology Association*.

Las cifras expresan porcentajes.

SPANISH REGISTRY

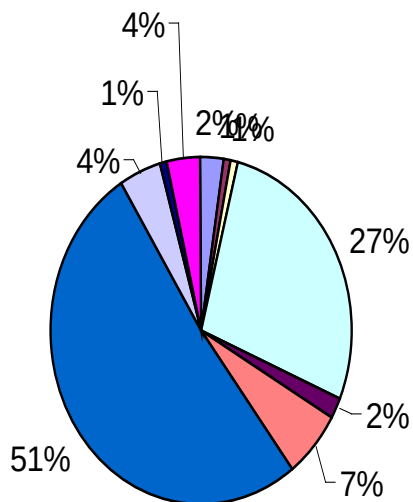
- 134 Hospitals.
- 4.216 AICDs.
- 91,2 per million inhabitant.
- 950 replacements (26.5 %)
- 2842 New devices (69.4 %)
- 210 No data (4.1 %).

SPANISH REGISTRY

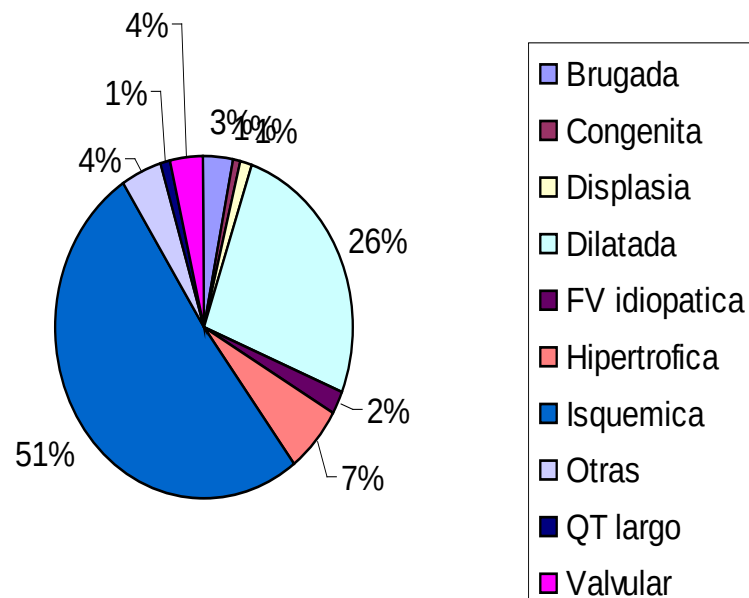
- **4.216** **AICDs.**
- **Mean age** **61,8 years (7-90)**
- **Males** **(83,4 %)**
- **Females** **(16,6 %)**

Etiology

Primoimplantes

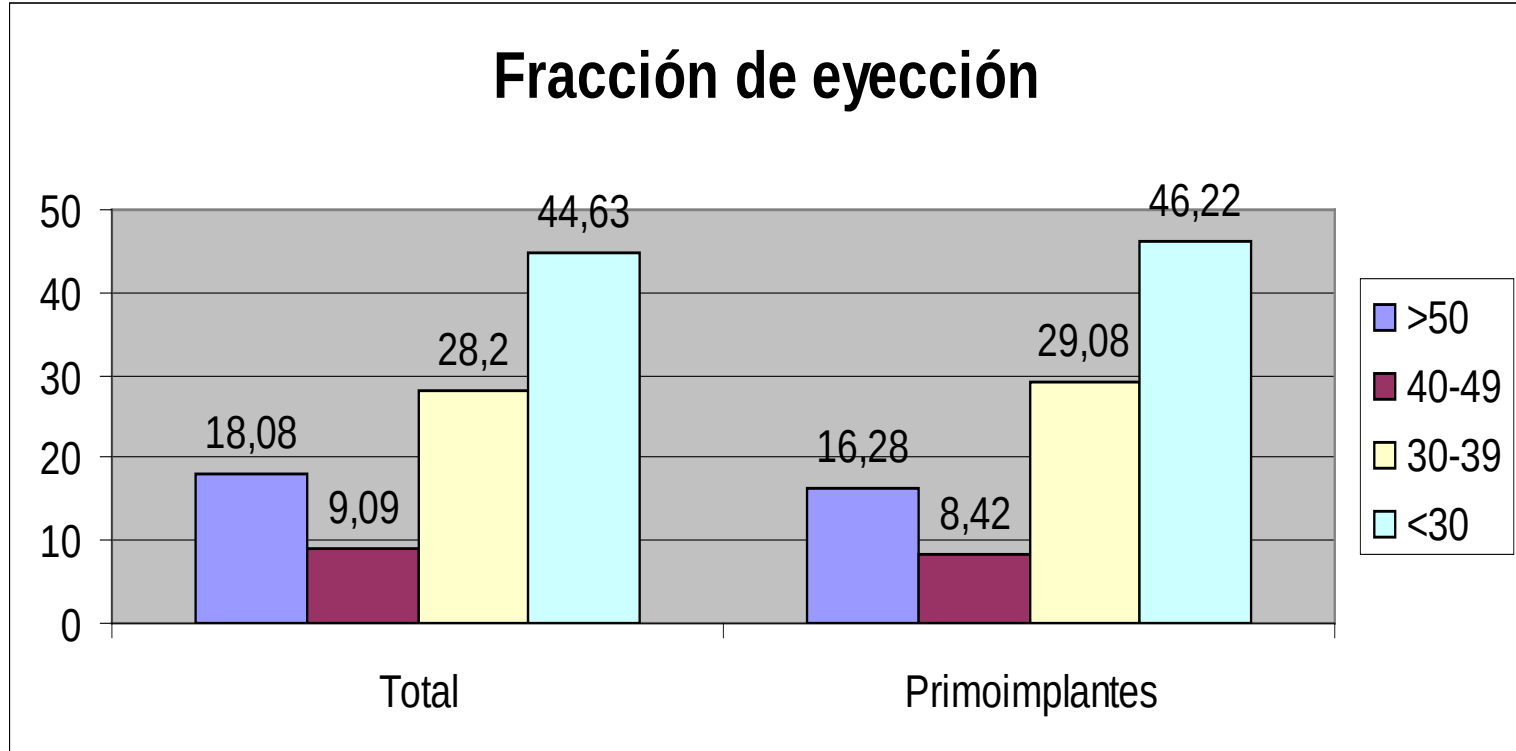


Implantes Totales



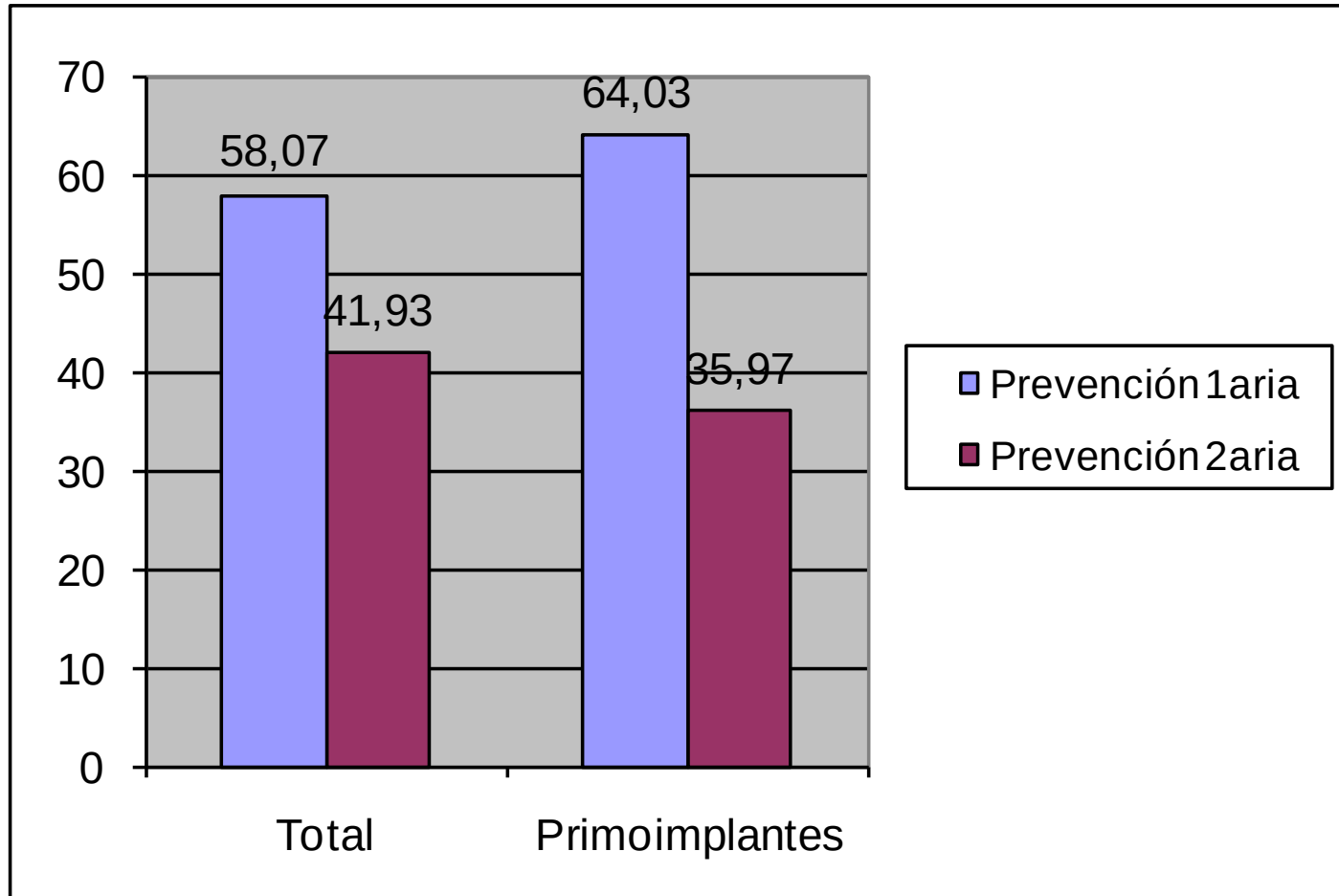
3.751 AICDs

Ejection Fraction

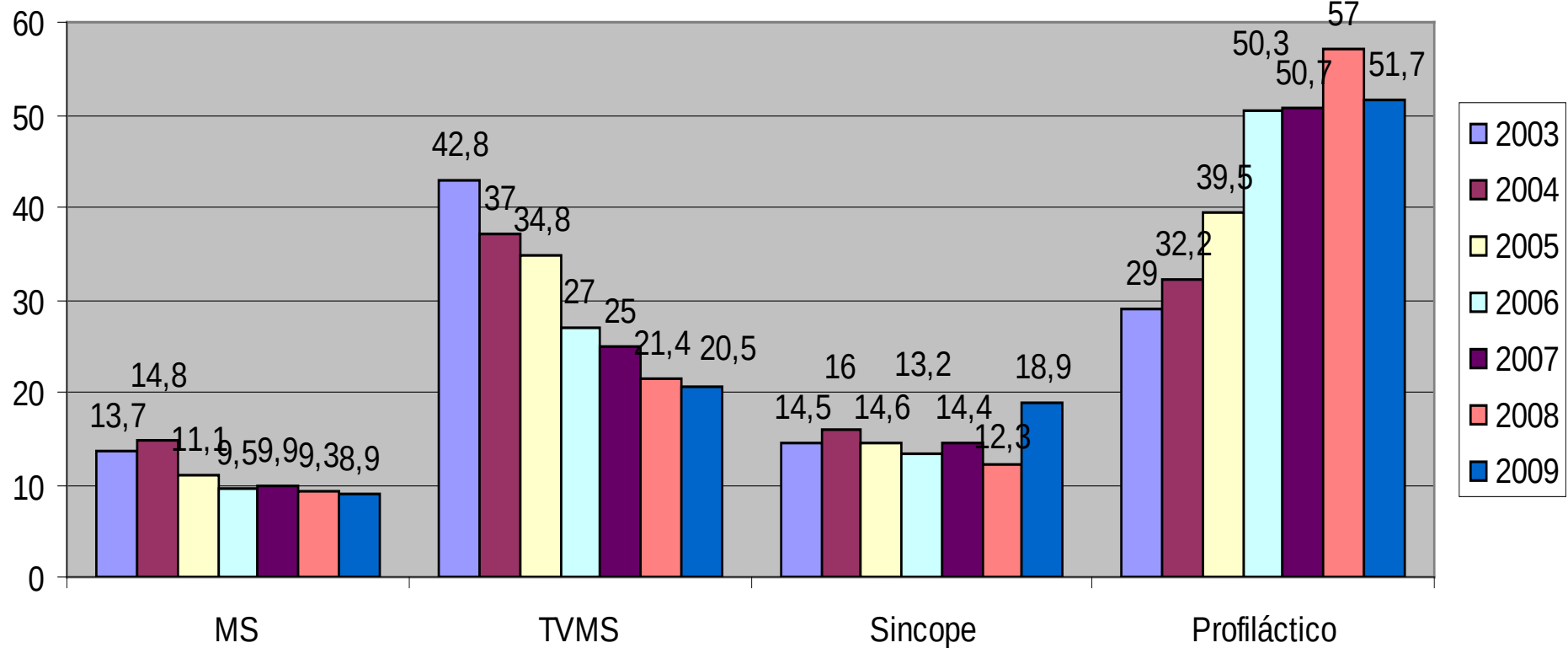


3.751 AICDs

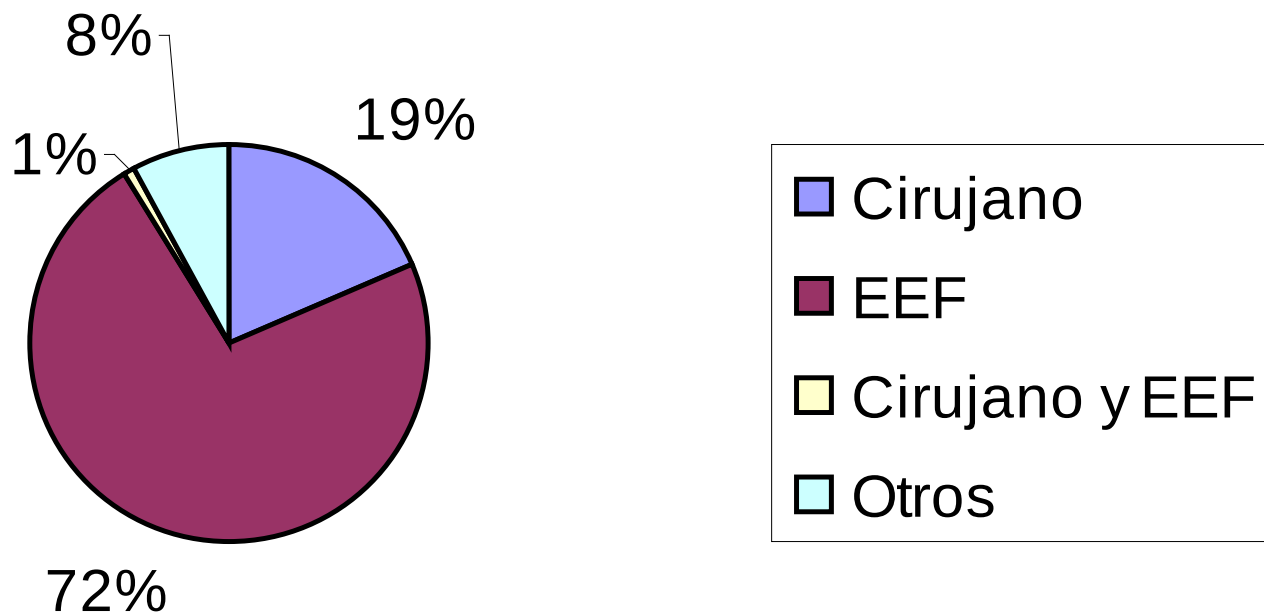
Indication



AICD Indication

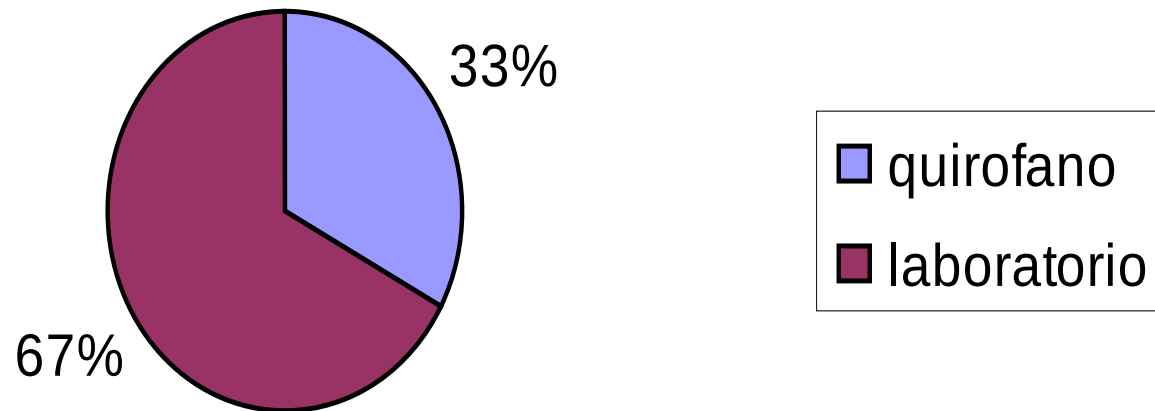


Physician



3.751 AICDs

Place



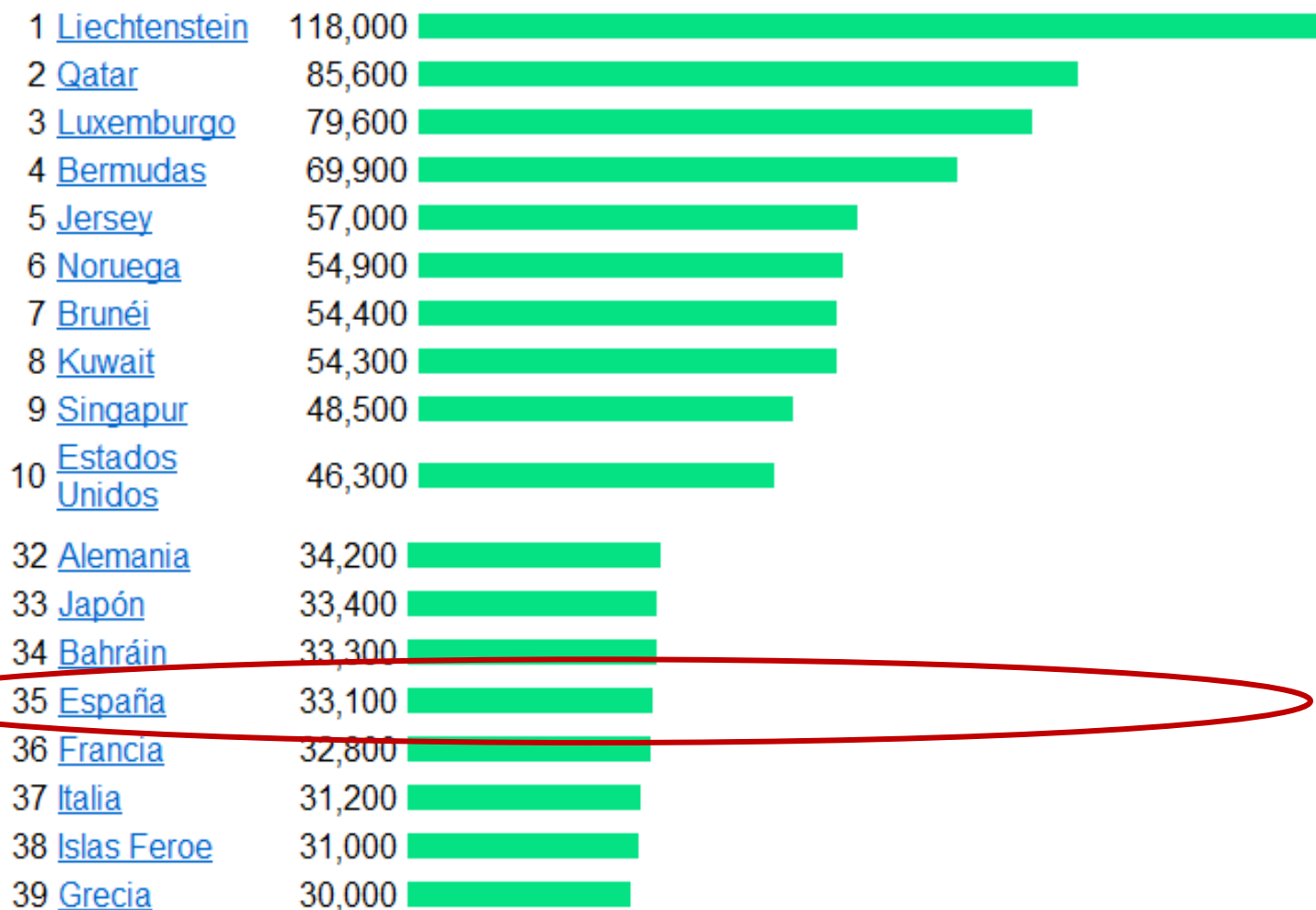
Complications

Intraprocedimiento

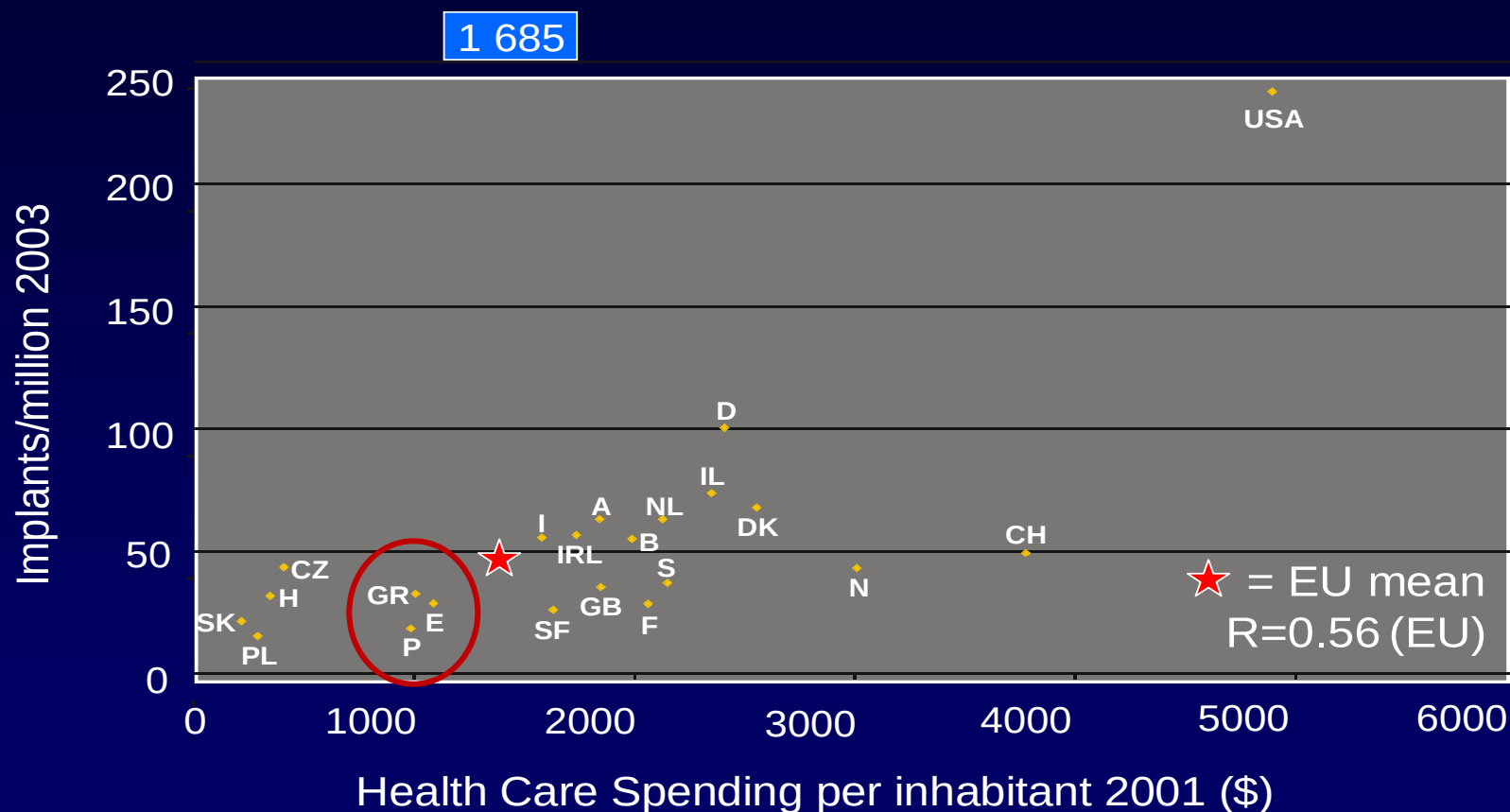
- **Mortality: 2 (0,8 / mil)**
- **Morbidity: 8 / (3 / mil)**
 - 2 cardiac taponade
 - Other (menores): 13

Posición País**Producto Interno Bruto (PIB) (miles de millones \$)**

1	Estados Unidos	13,820	
2	China	6,473	
3	Japón	4,262	
4	India	2,816	
5	Alemania	2,816	
6	Reino Unido	2,154	
7	Francia	2,074	
8	Rusia	1,985	
9	Italia	1,814	
10	Brasil	1,794	
11	México	1,494	
12	España	1,337	
13	Canadá	1,263	
14	Corea del Sur	1,243	
15	Turquía	853.6	
16	Indonesia	810.9	
17	Australia	752.2	
18	Irán	733	
19	Taiwán	672.9	
20	Países Bajos	635.9	
21	Polonia	596.7	

Posición País**Producto Interno Bruto (PIB) per capita (US\$)**

ICD implants in relation to health care spending



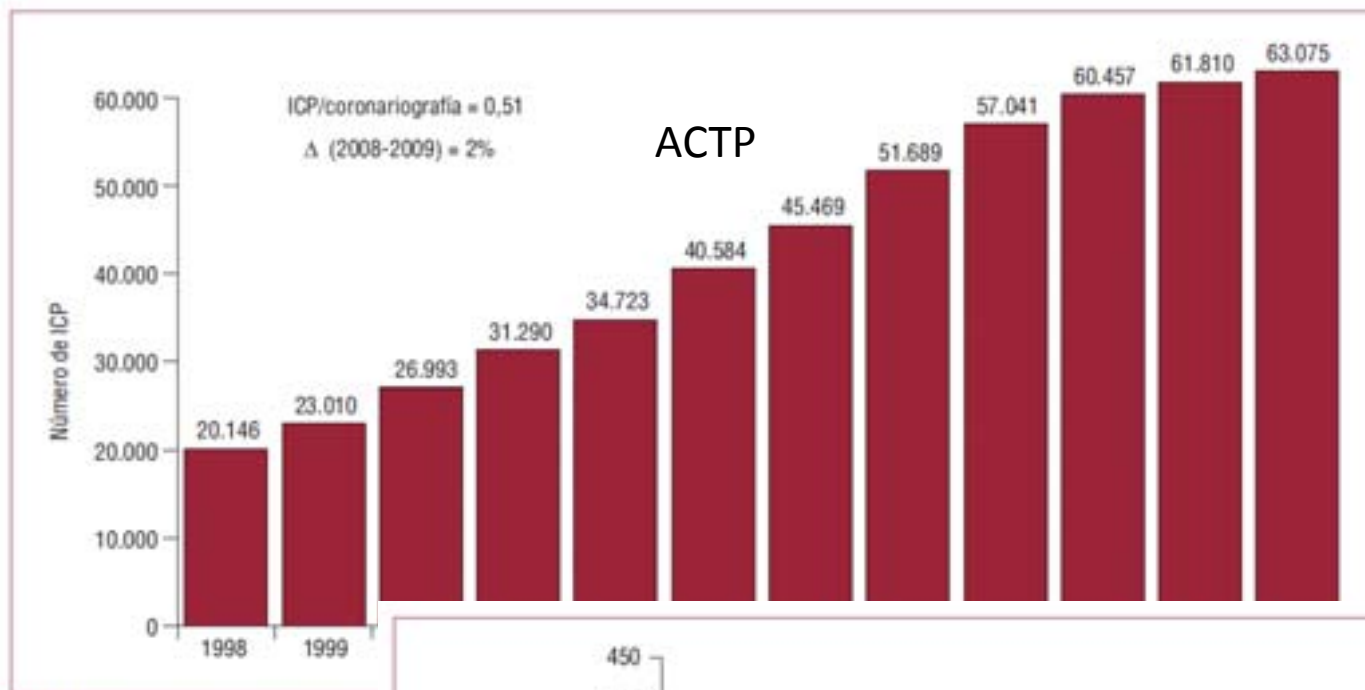


Fig. 5. Evolución del número de intervenciones

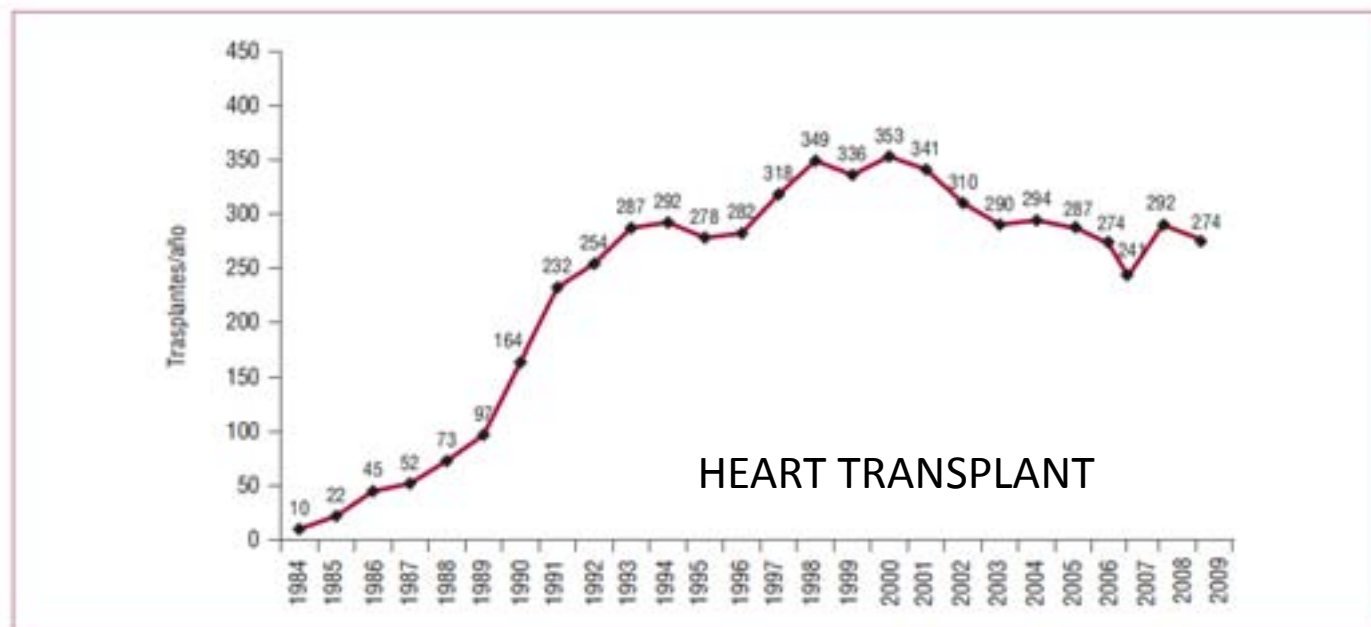
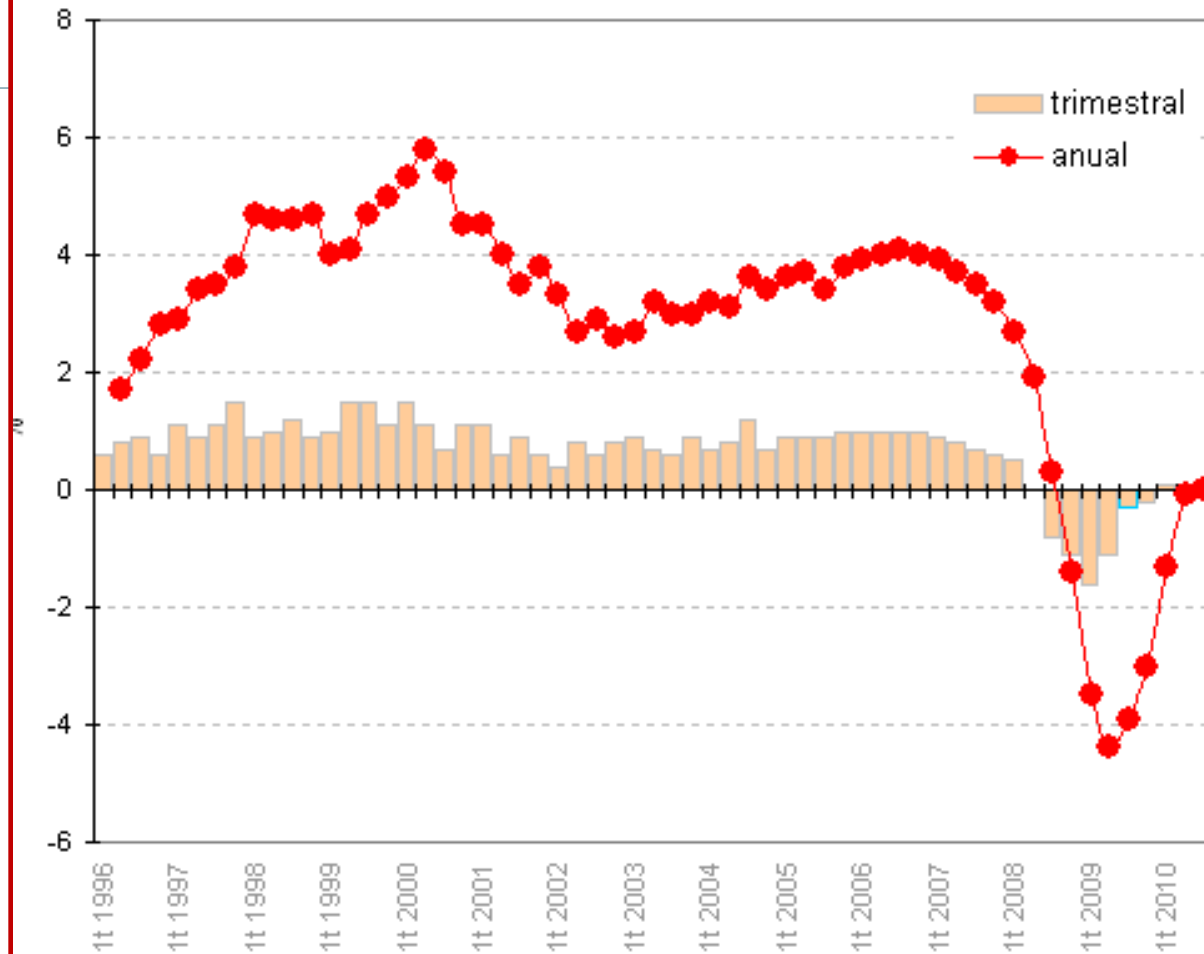
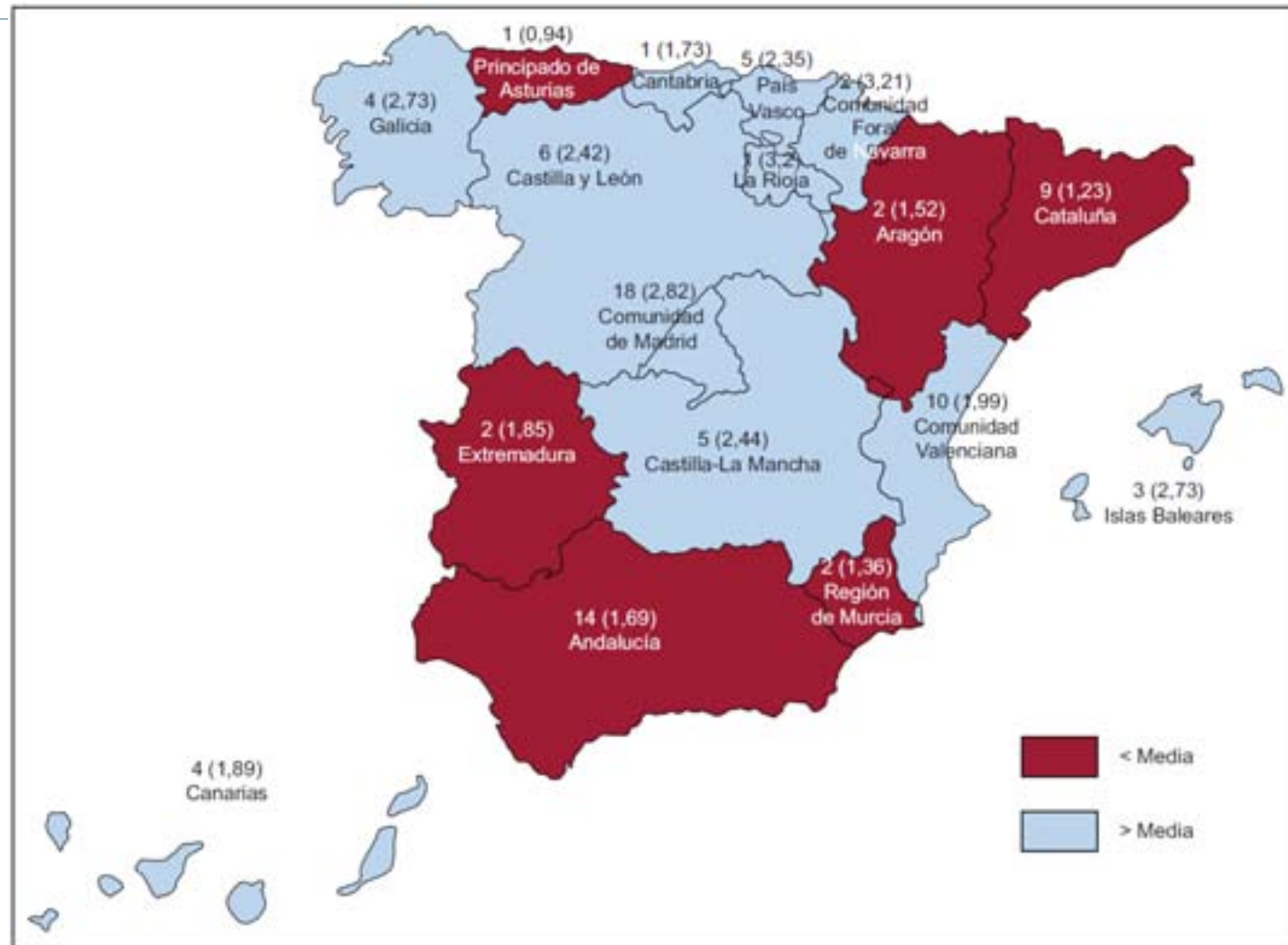


Fig. 1. Número de trasplantes por año.

evolución del pib anual y trimestral en españa



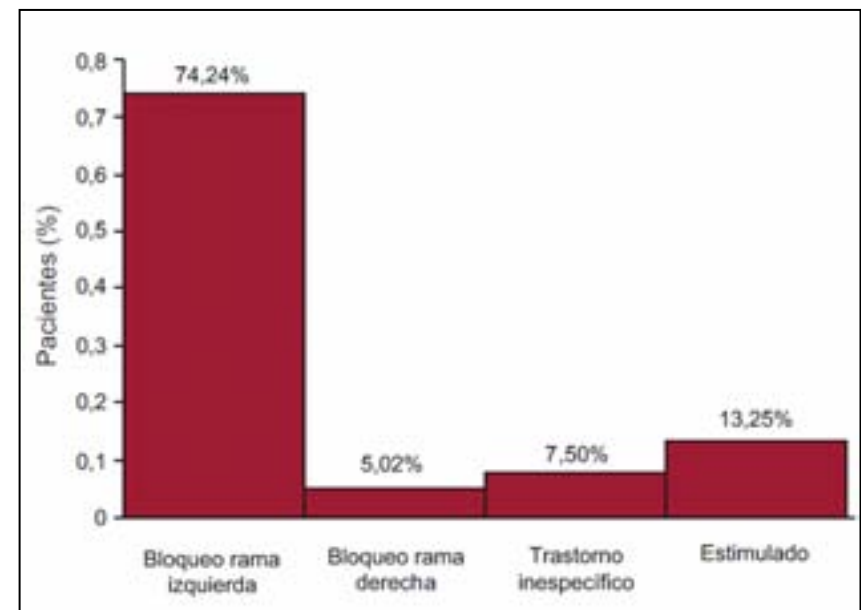
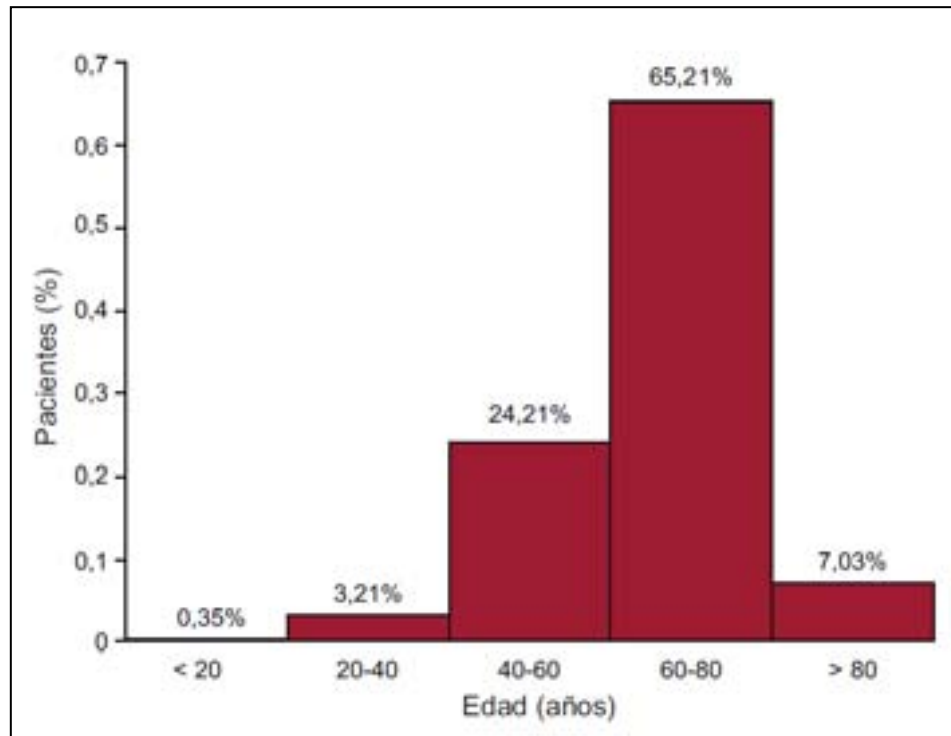
Análisis transversal de la resincronización cardíaca en España. Indicaciones, técnicas de implante, optimización y seguimiento



Análisis transversal de la resincronización cardíaca en España. Indicaciones, técnicas de implante, optimización y seguimiento



Análisis transversal de la resincronización cardiaca en España. Indicaciones, técnicas de implante, optimización y seguimiento



Análisis transversal de la resincronización cardíaca en España. Indicaciones, técnicas de implante, optimización y seguimiento

