

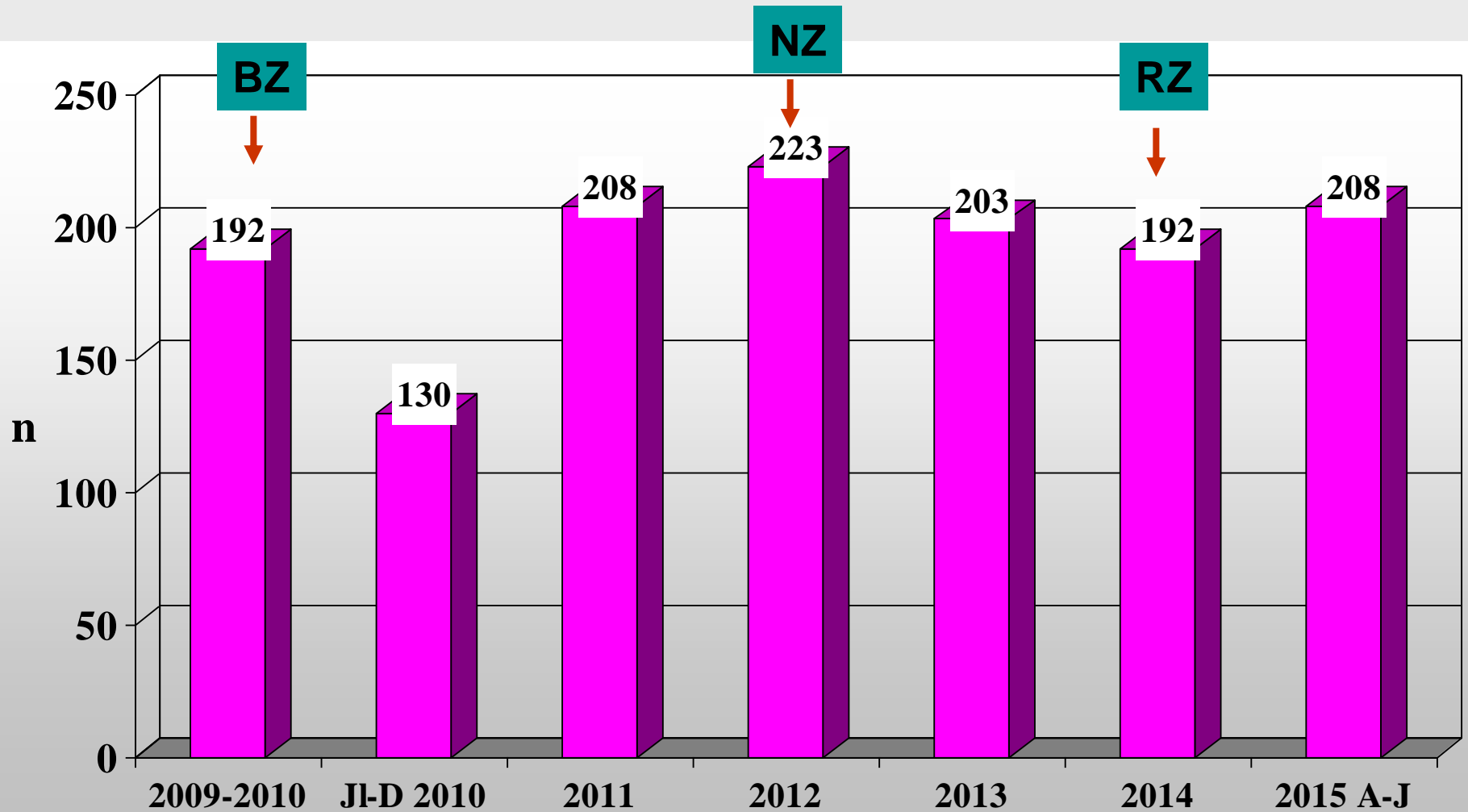
The background is a painting of a landscape. It features rolling hills in shades of green and brown, with several trees in the foreground and middle ground. The trees have autumn-colored foliage in shades of orange, red, and brown. The sky is a mix of warm colors like yellow, orange, and red, suggesting a sunset or sunrise. The overall style is impressionistic and somewhat abstract.

# **SITUACIÓN DEL PROYECTO BACTERIEMIA ZERO**

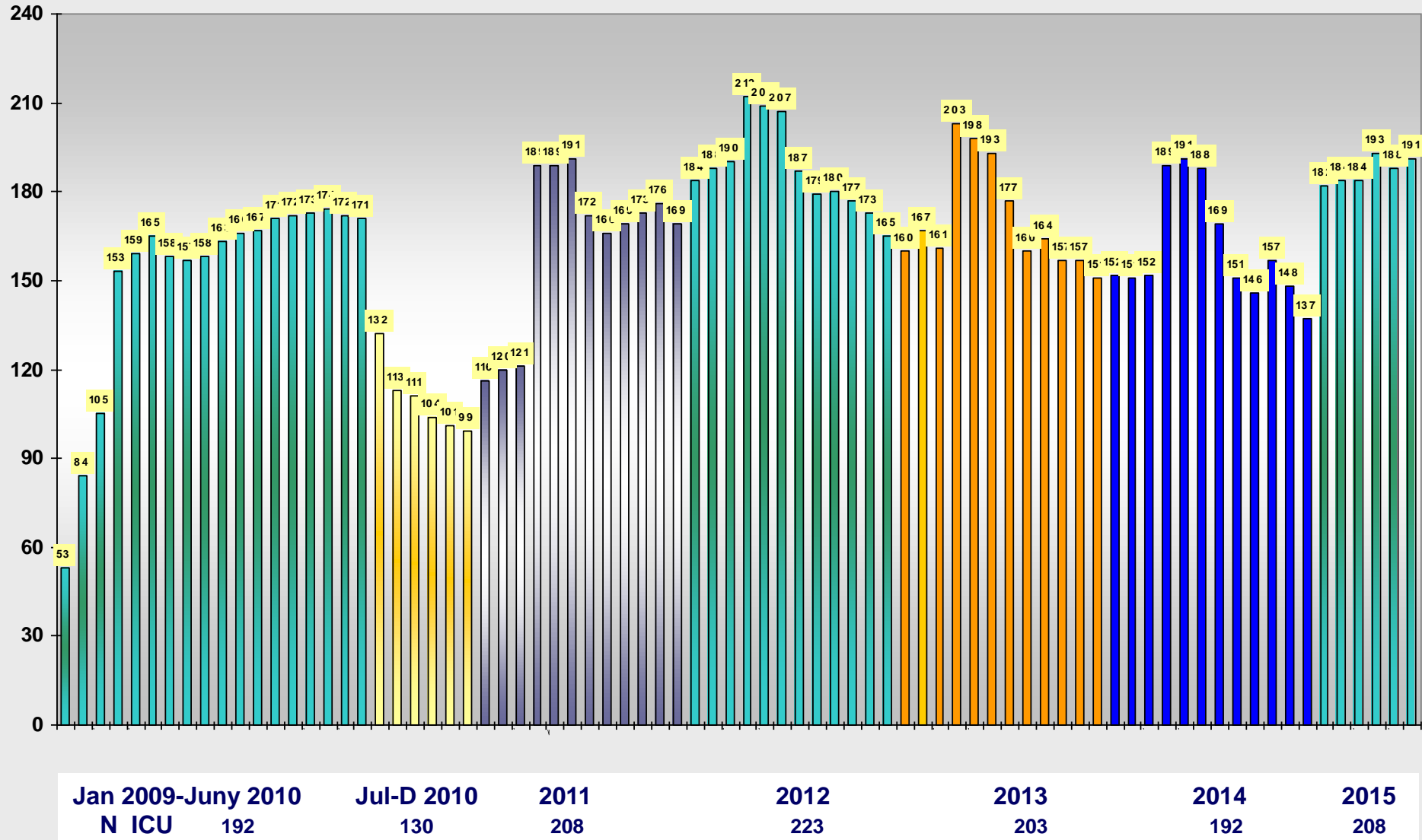
**MERCEDES PALOMAR  
SMI H ARNAU DE VILANOVA (LLEIDA)**

**MADRID 10-11-2015**

# BZ: ICUs PARTICIPATING

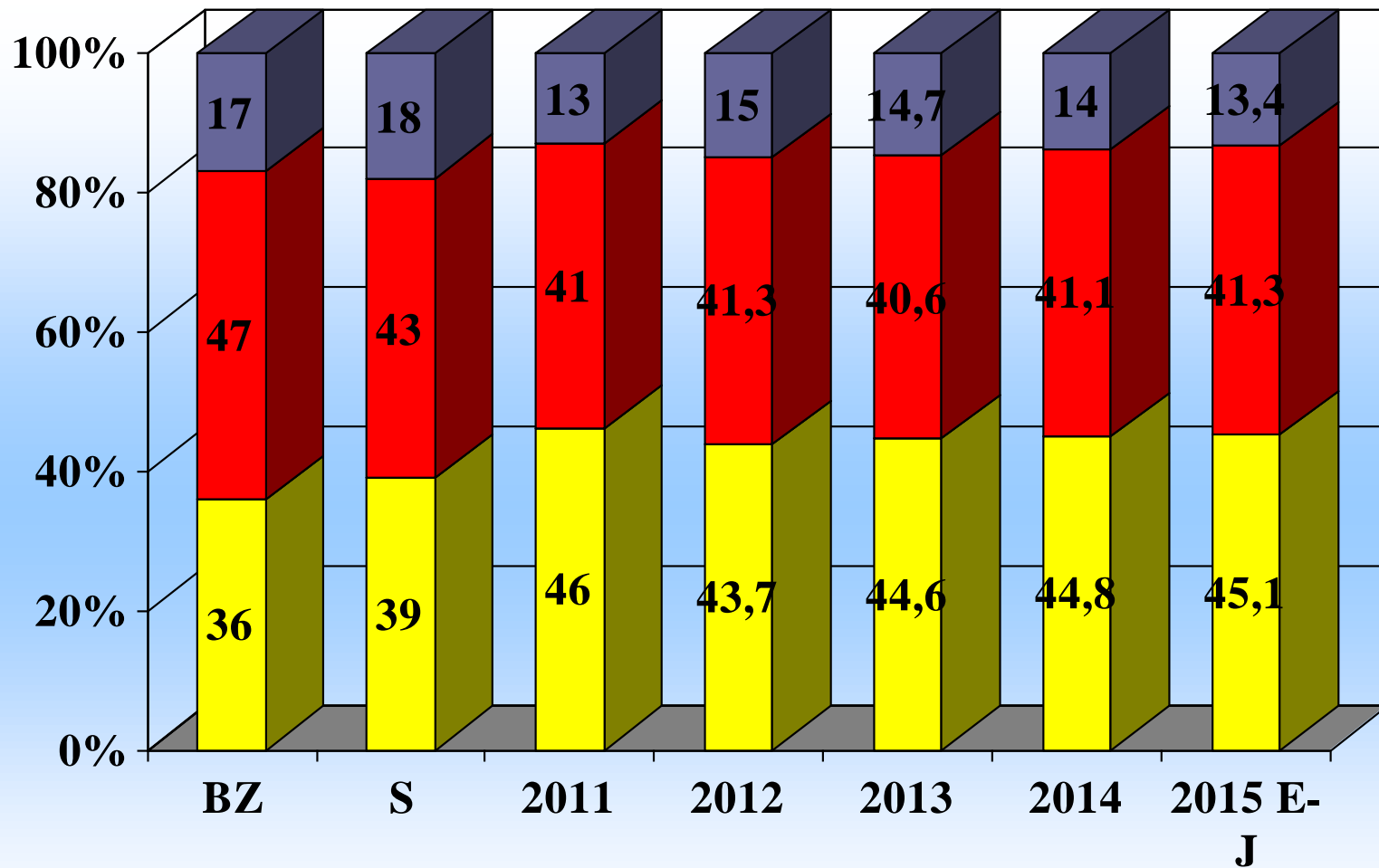


# BZ: ICUs PARTICIPATING



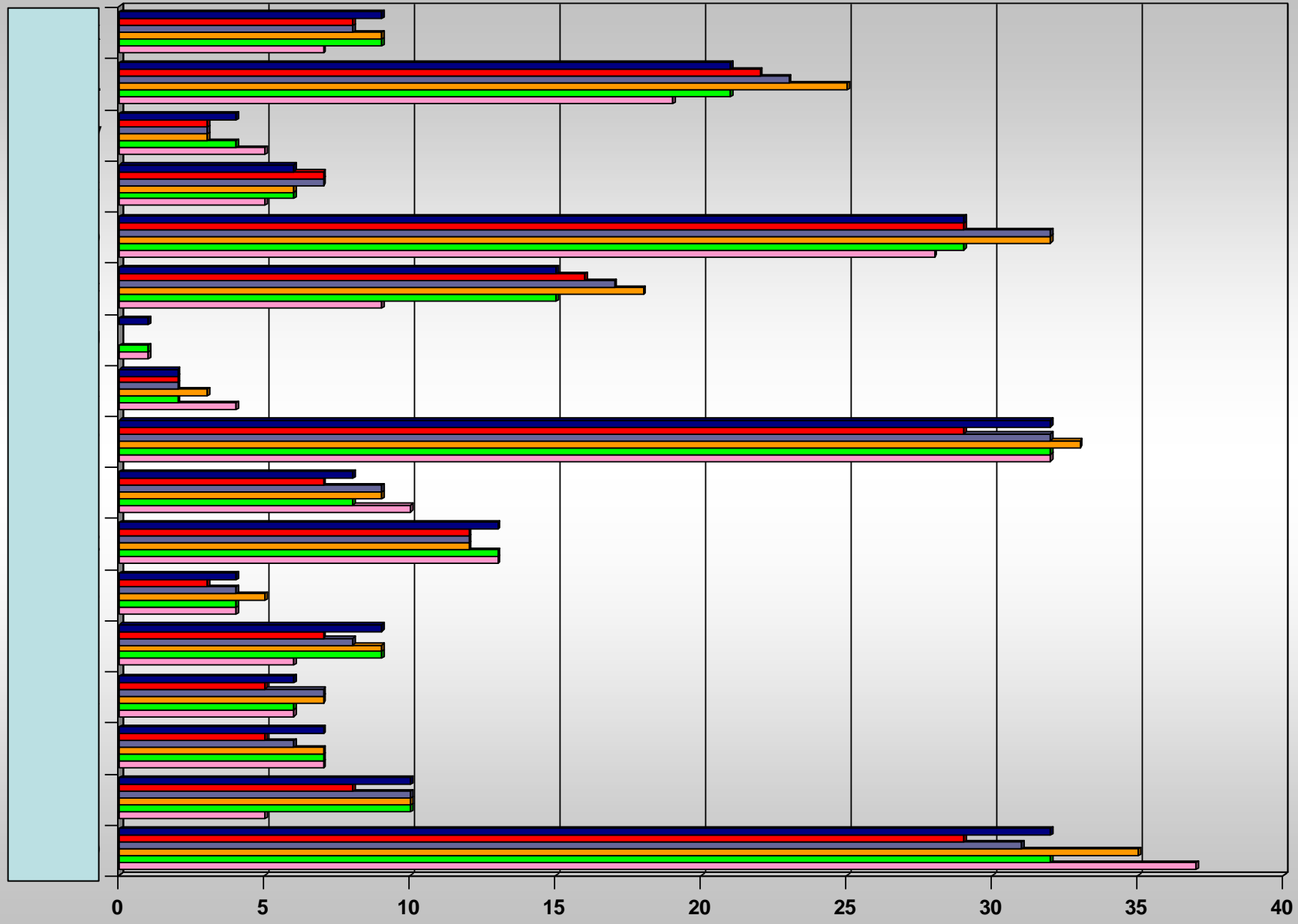
# CARACTERÍSTICAS DE LOS HOSPITALES

## TAMAÑO HOSPITAL



**G M P**

# N UCI x CCAA

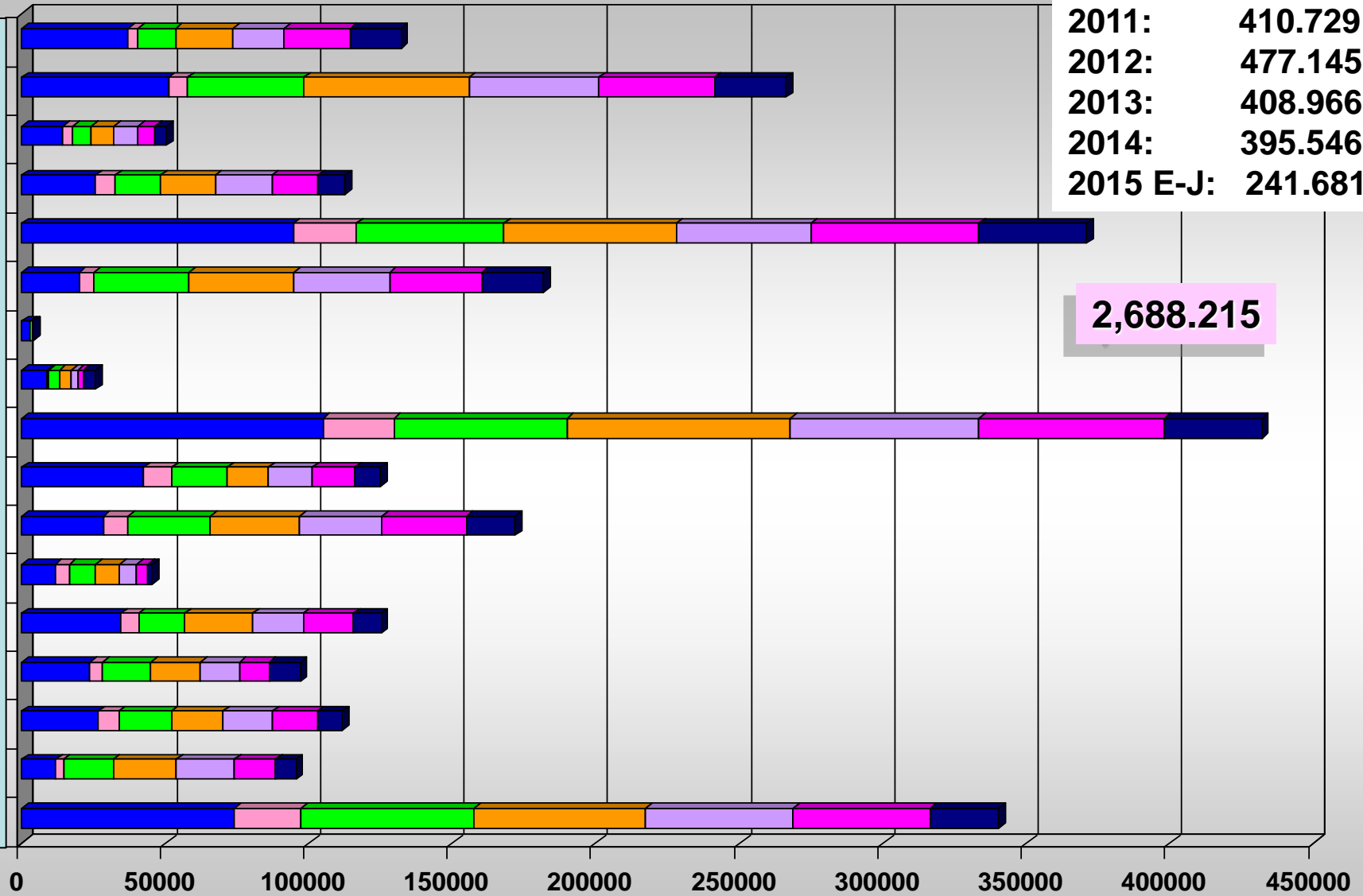


- 2015E
- 2014
- 2013
- 2012
- 2011
- 2009-1

# DÍAS DE CVC x CCAA

**BZ:** 614.070  
**S-D 2010:** 140.078  
**2011:** 410.729  
**2012:** 477.145  
**2013:** 408.966  
**2014:** 395.546  
**2015 E-J:** 241.681

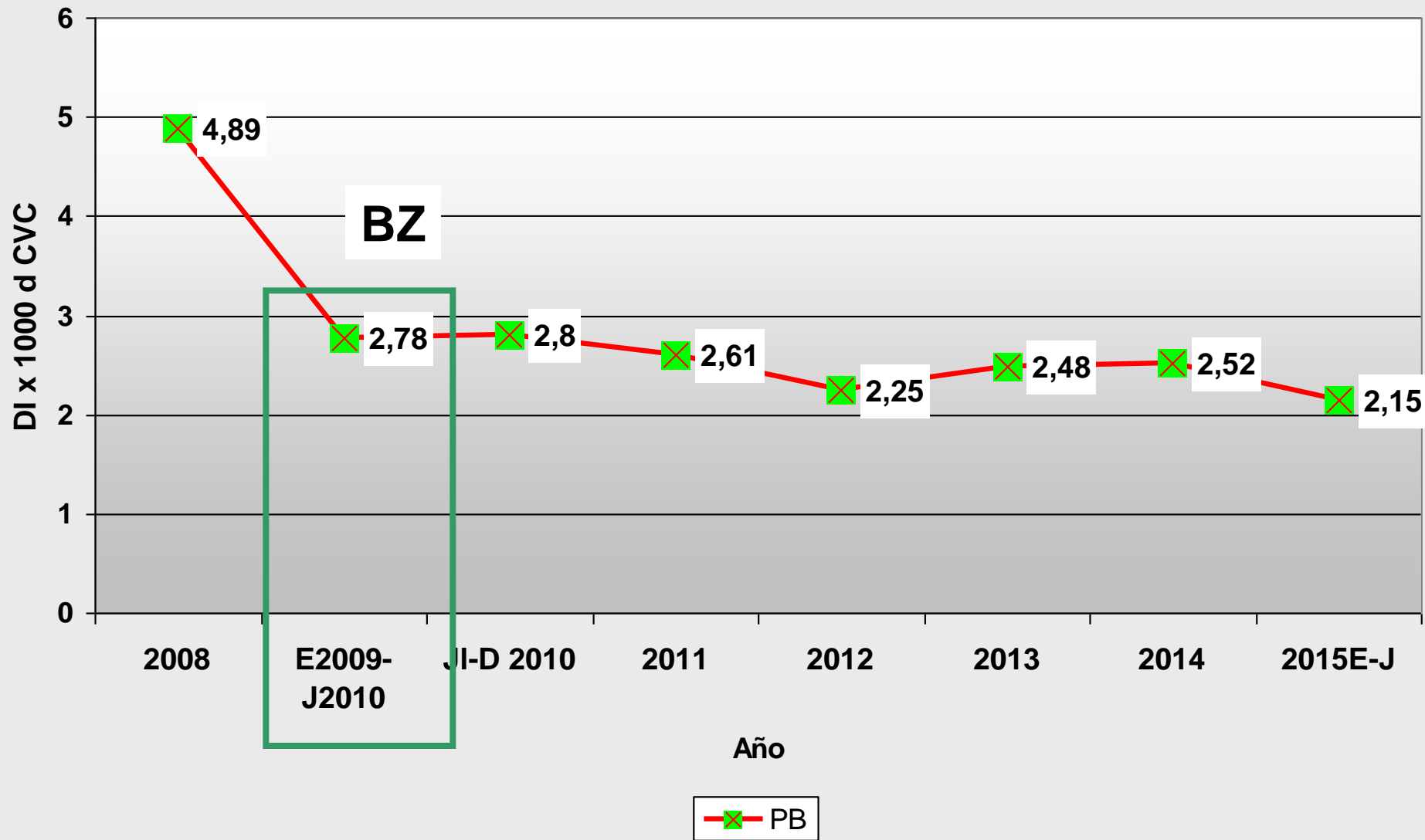
**2,688.215**



■ BZ 
 ■ S 
 ■ 2011 
 ■ 2012 
 ■ 2013 
 ■ 2014 
 ■ 2015E-J

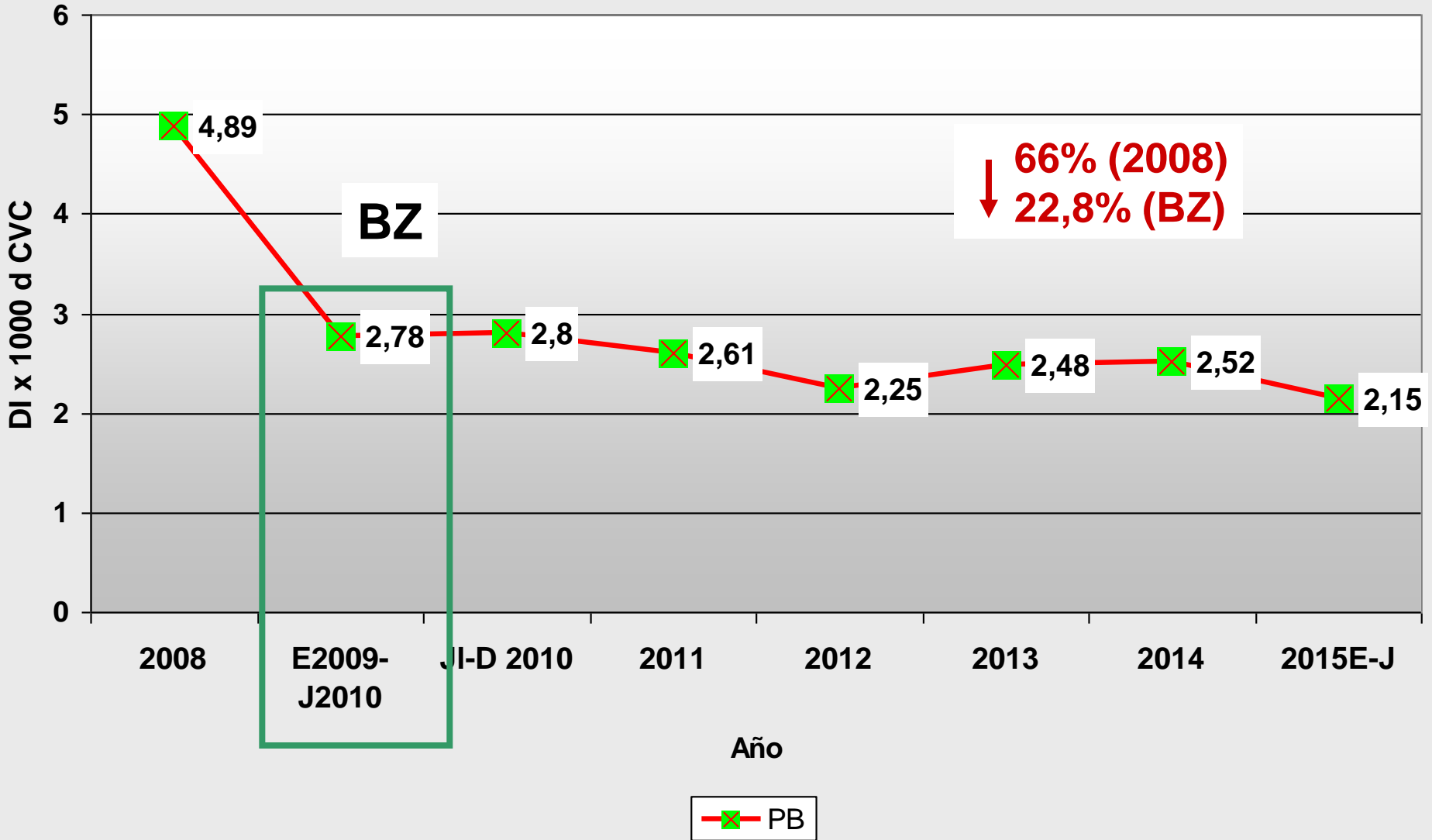
# BZ RATES SUSTAINABILITY

(BACTEREMIA ORIGIN CATHETER + UNKNOWN ORIGIN)



# BZ RATES SUSTAINABILITY

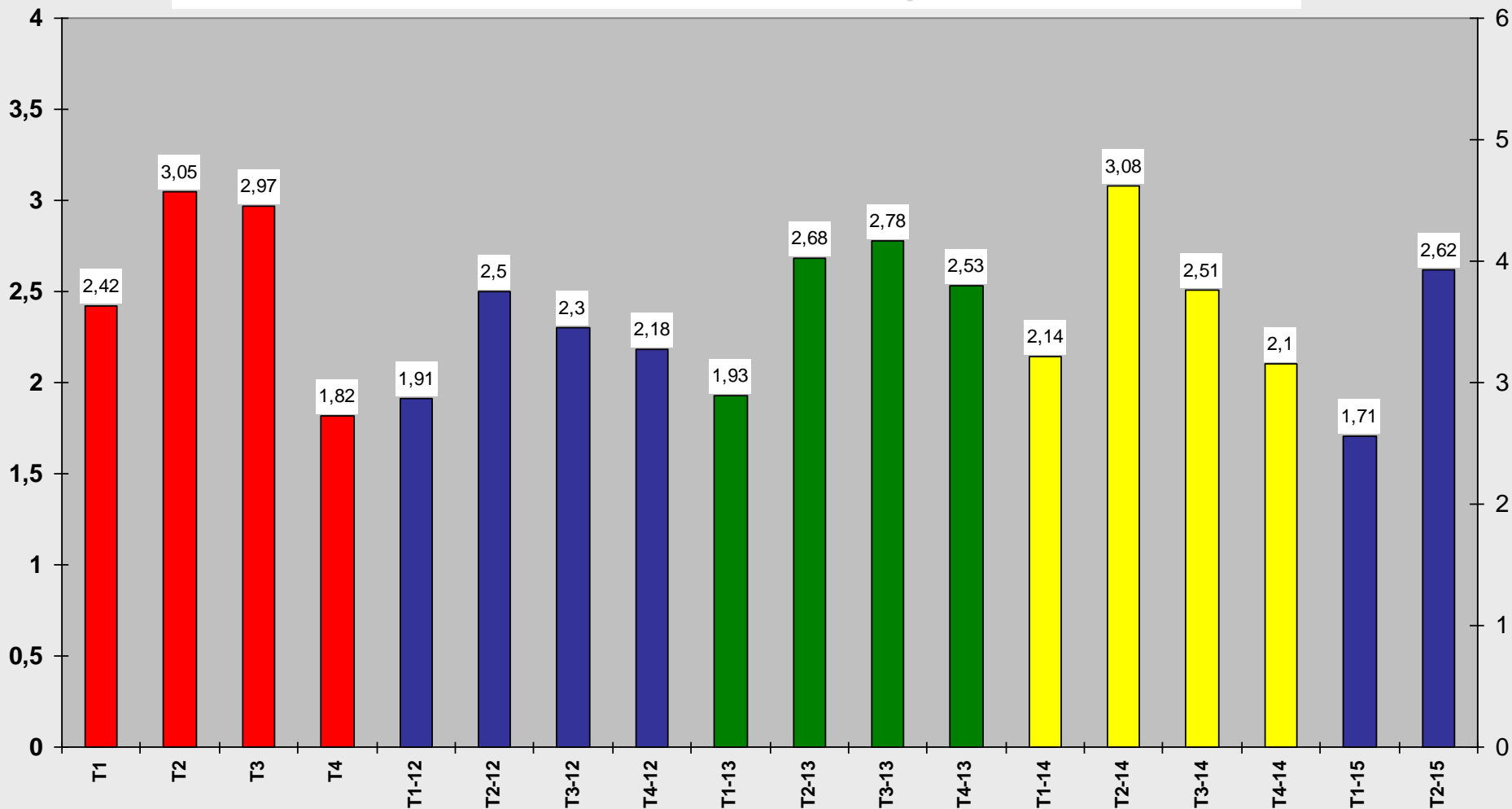
(BACTEREMIA ORIGIN CATHETER + UNKNOWN ORIGIN)



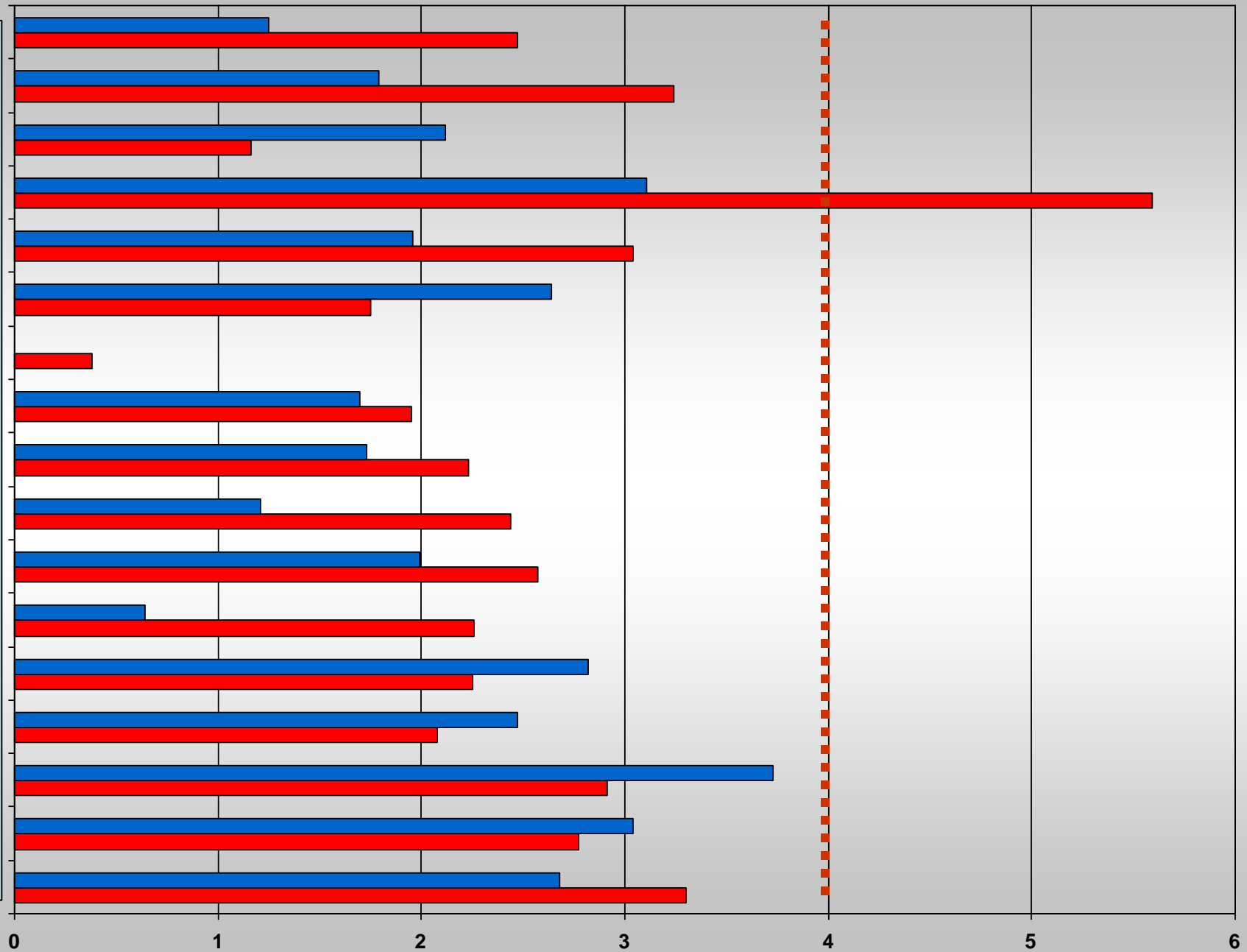


# TASAS BP: EVOLUCION TRIMESTRAL

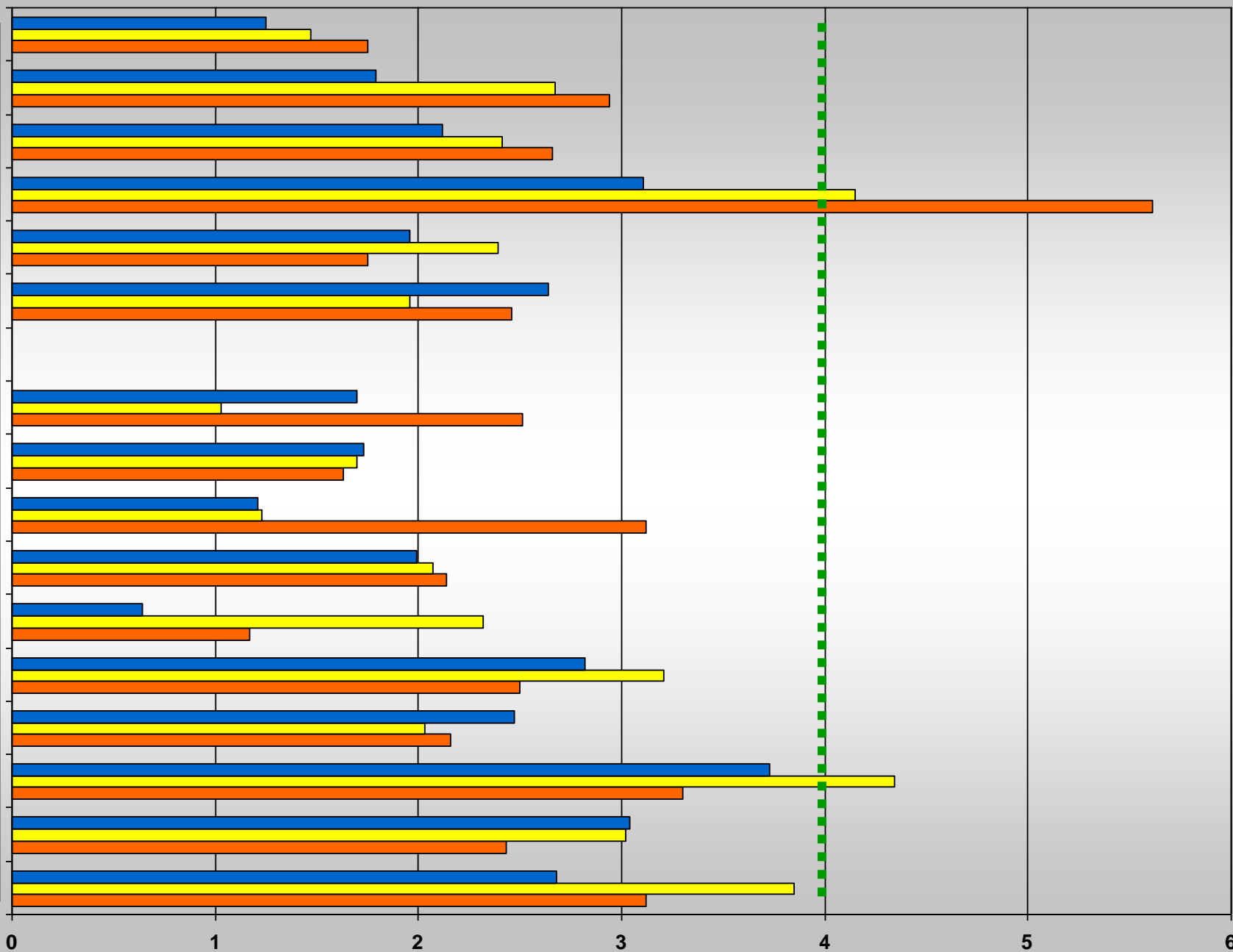
**2011:** 1071 BP x 410.729 d CVC = 2,61 episodios x 1000 d CVC  
**2012:** 1073 BP x 477.125 d CVC = 2,25 episodios x 1000 d CVC  
**2013:** 1022BP x 411.988 d CVC = 2,48 episodios x 1000 d CVC  
**2014:** 996 BP x 395.546 d CVC = 2,52 episodios x 1000 d CVC  
**2015:** 570 BP x 241.681 d CVC = 2,15 episodios x 1000 d CVC



# DI BP x CCAA

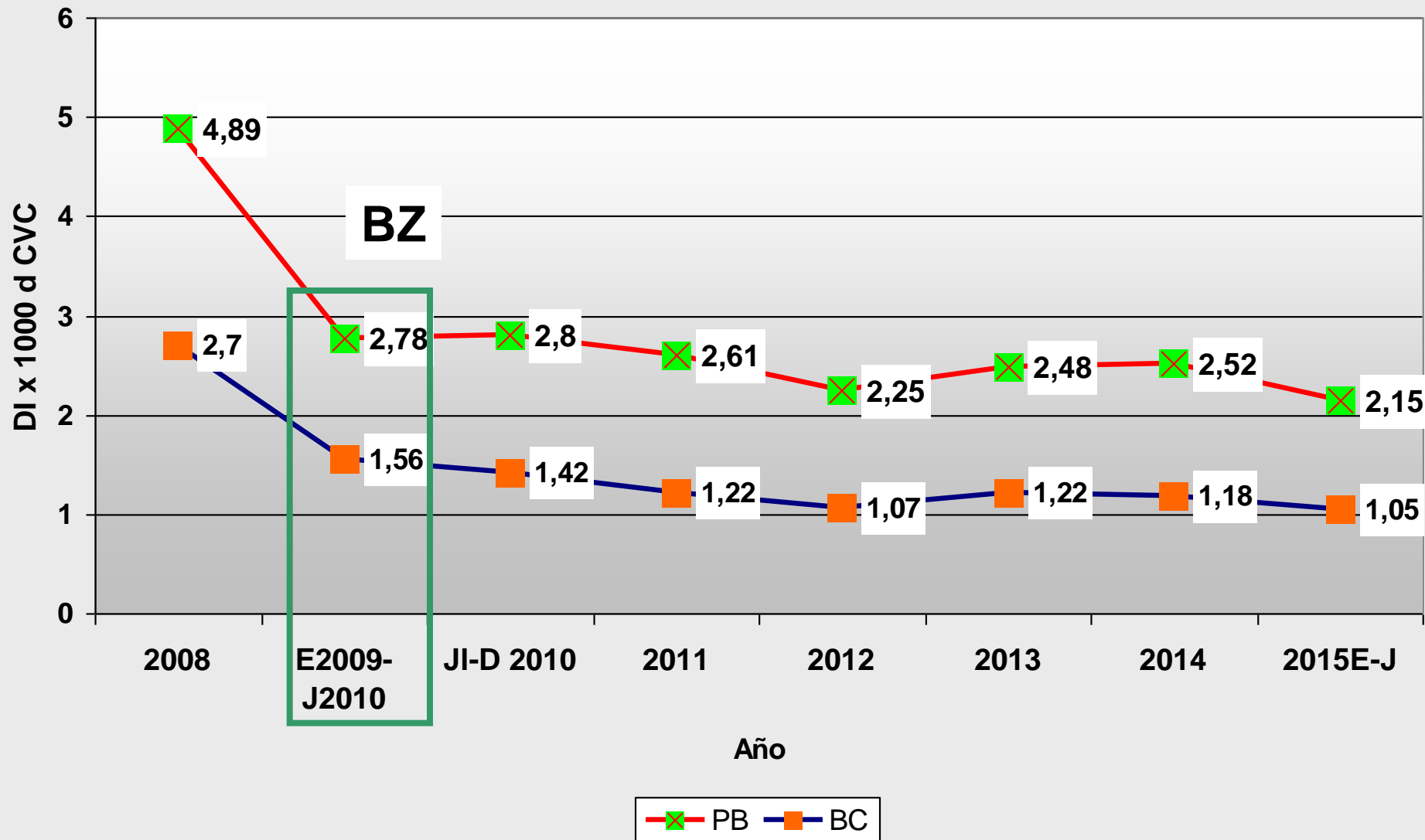


# DI BP x CCAA

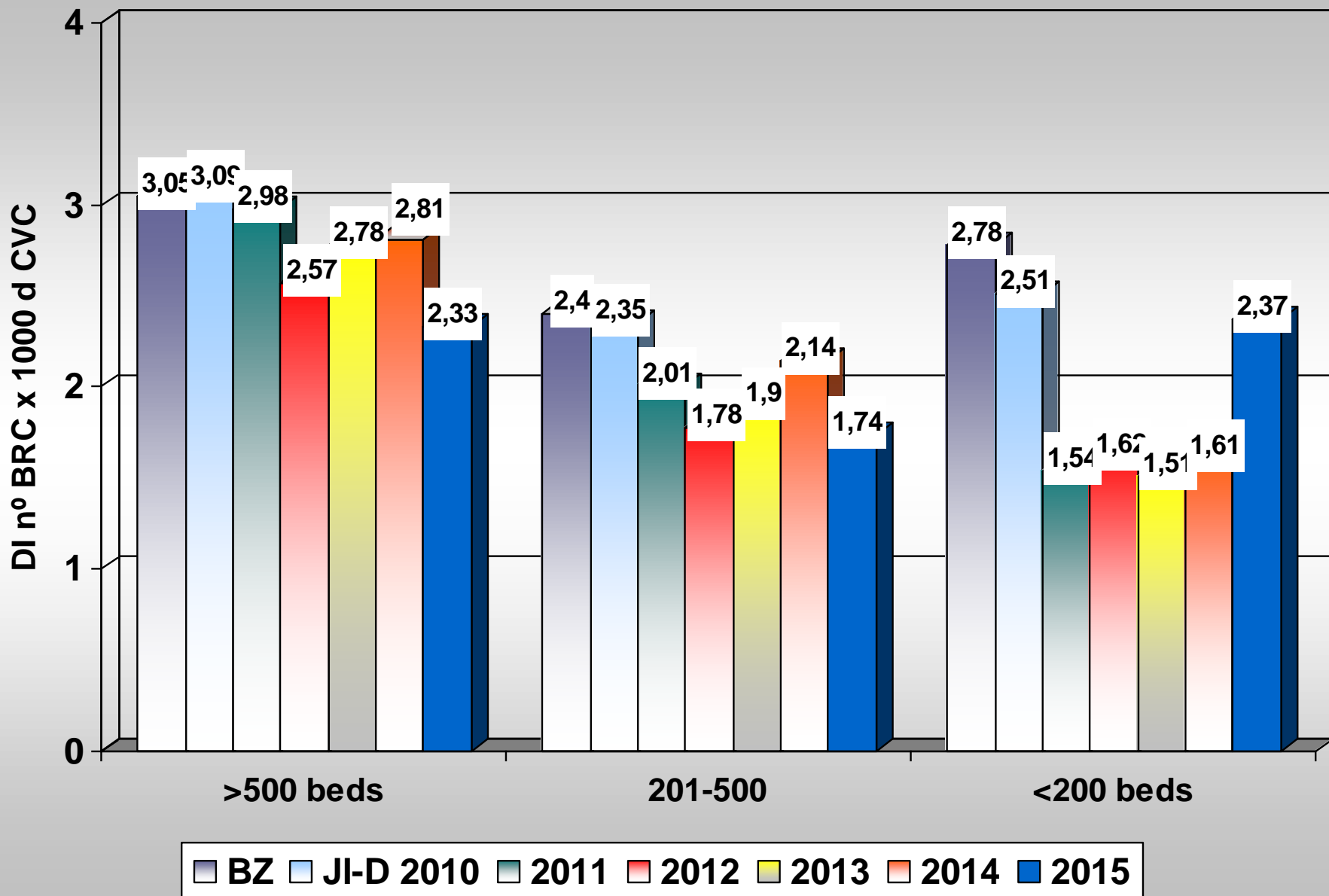


# BZ RATES SUSTAINABILITY

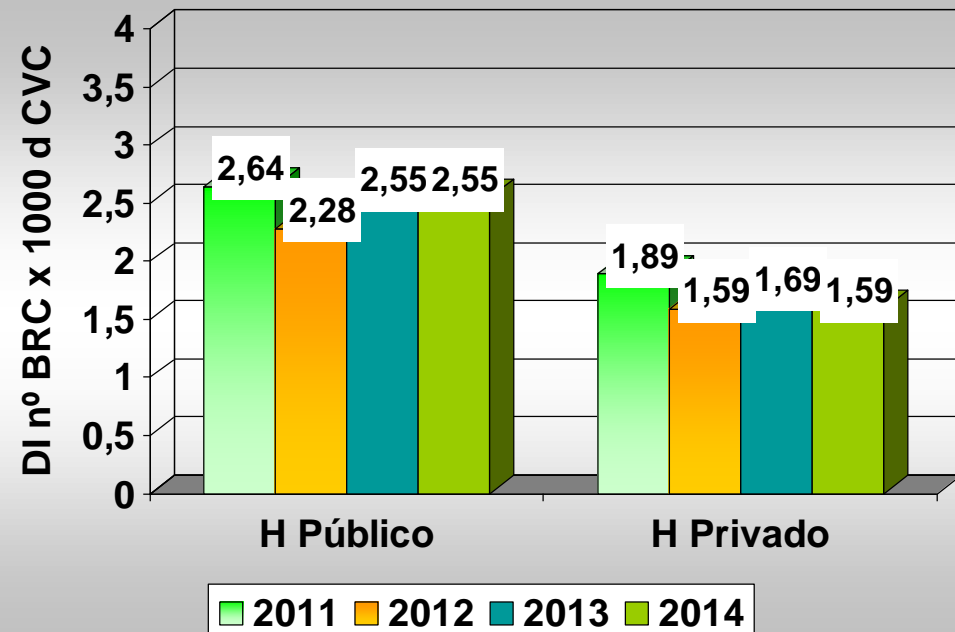
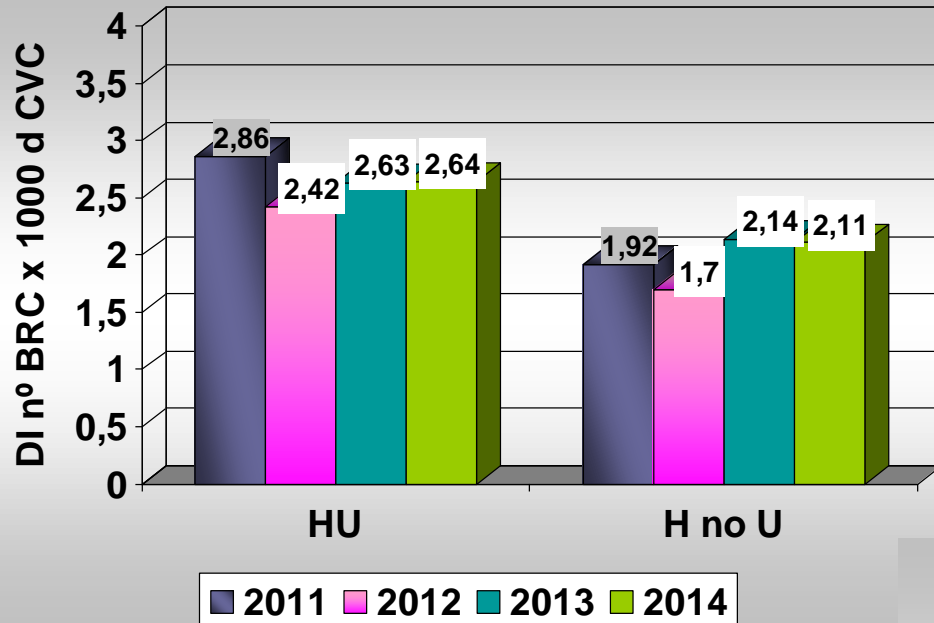
(BACTEREMIA ORIGIN CATHETER + UNKNOWN ORIGIN)



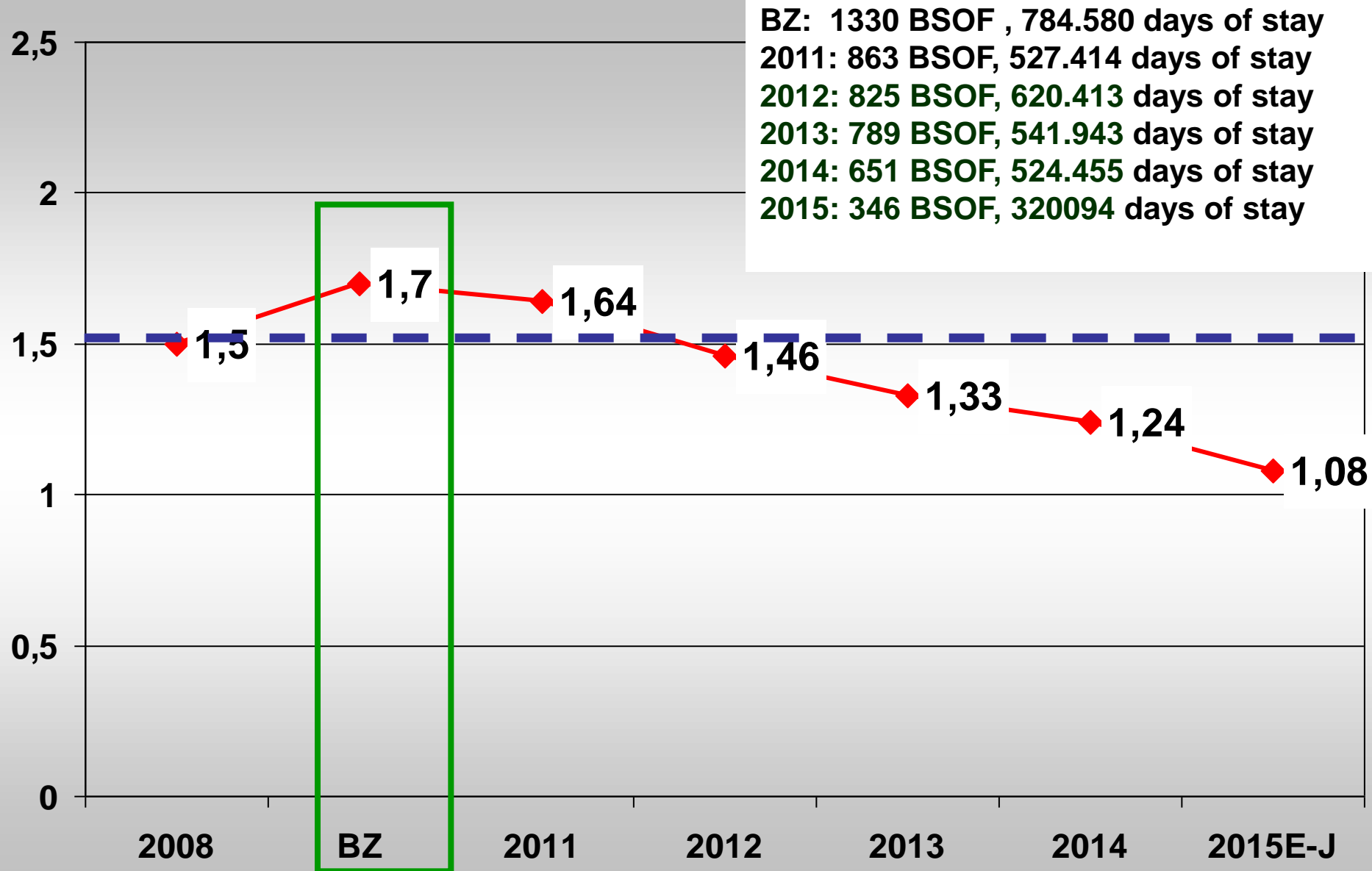
# HOSPITAL SIZE AND PB RATES



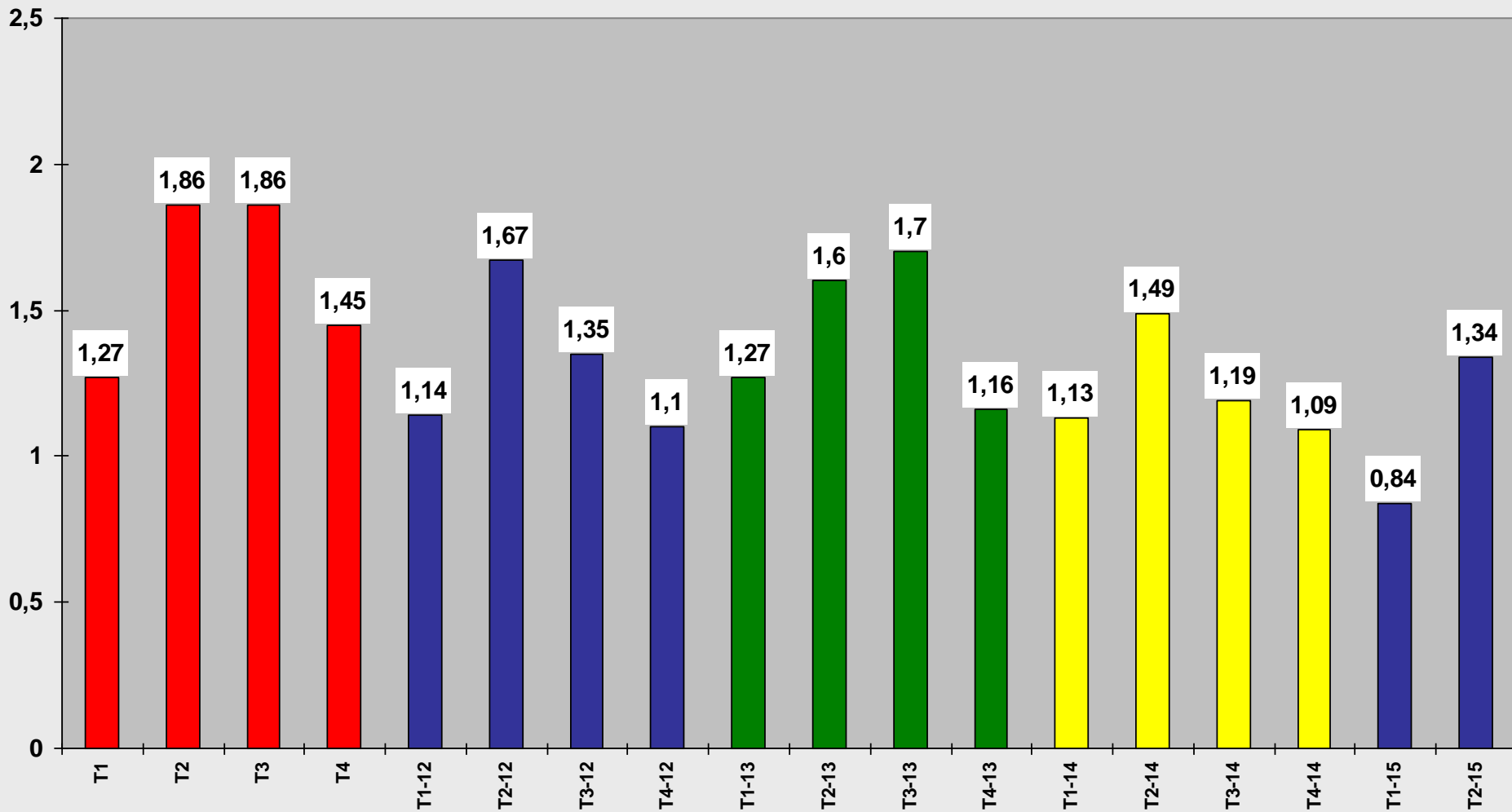
# TASAS BP SEGÚN TIPO DE HOSPITAL



# BSI-Secondary to other Infection Sites

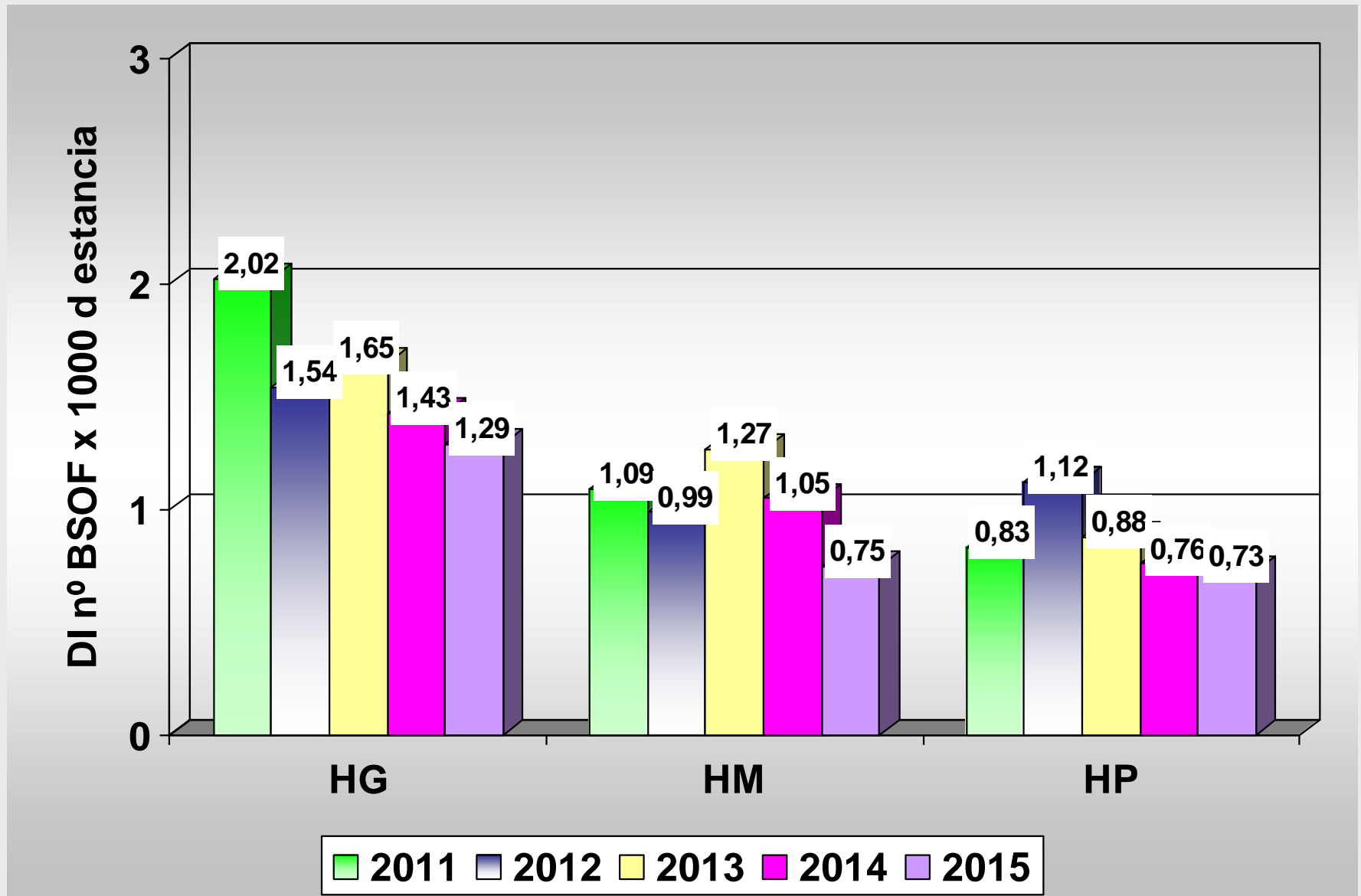


# TASAS BSOF: EVOLUCION TRIMESTRAL

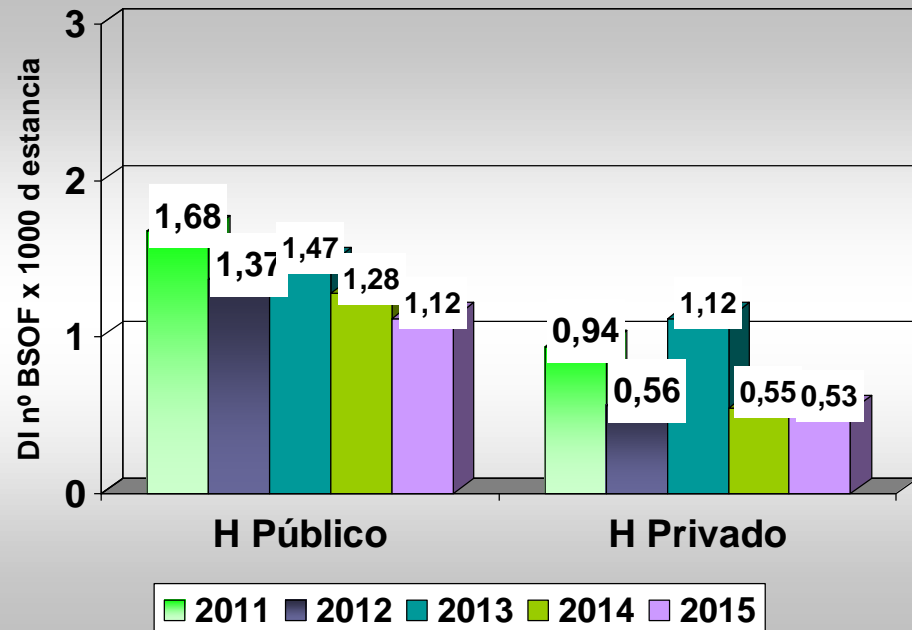
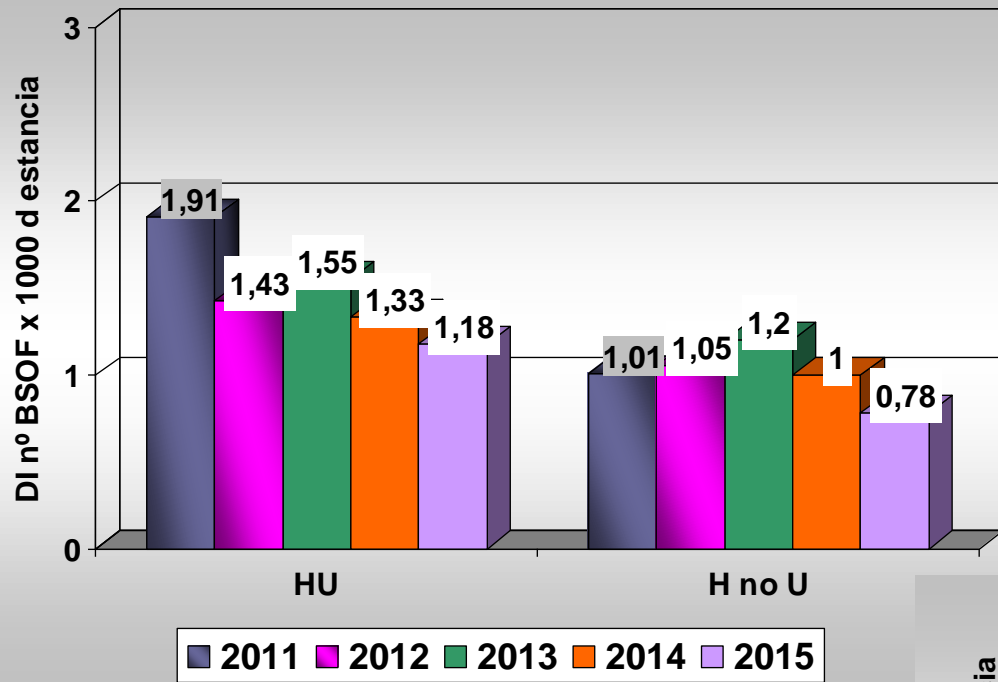




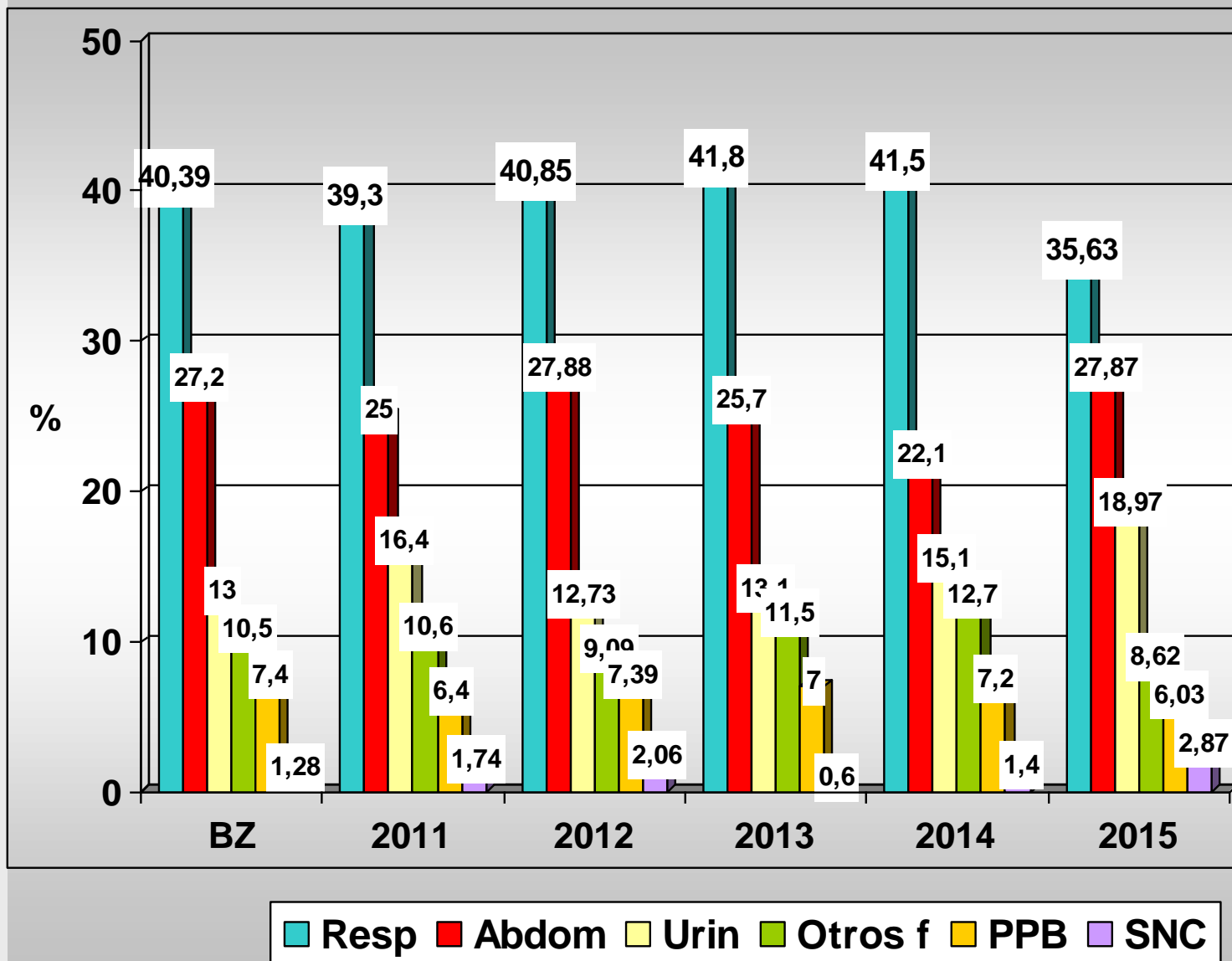
# TASAS BSOF SEGÚN TAMAÑO DE HOSPITAL



# TASAS BSOF SEGÚN TIPO DE HOSPITAL

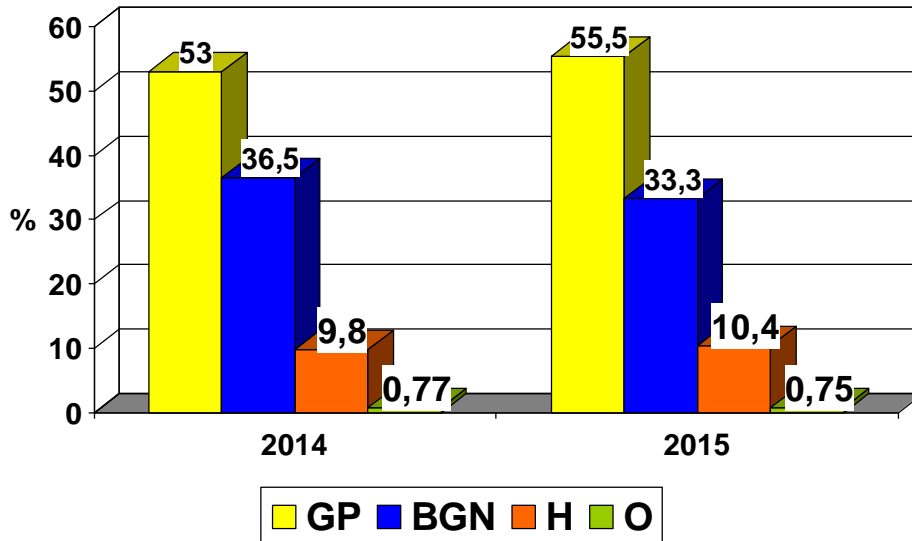


# BACTERIEMIAS SECUNDARIAS: ORIGEN

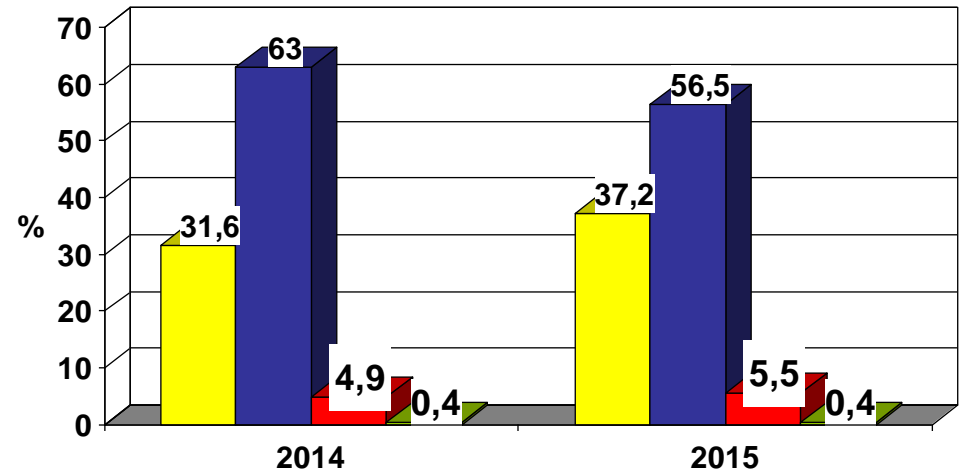


# ETIOLOGÍA BZ 2015

## BP



## BSOF



**BP (1452 Mo)****2014****BSOF (1901Mo)**

<i>Staphylococcus epidermidis</i>	321	22,11
<i>ECN</i>	119	8,20
<i>Klebsiella pneumoniae</i>	118	8,13
<i>Pseudomonas aeruginosa</i>	98	6,75
<i>Escherichia coli</i>	81	5,58
<i>Enterococcus faecalis</i>	78	5,37
<i>Staphylococcus aureus</i>	75	5,17
<i>Candida albicans</i>	62	4,27
<i>Enterococcus faecium</i>	54	3,72
<i>Staphylococcus otros</i>	46	3,17
<i>Enterobacter cloacae</i>	44	3,03
<i>Candida parapsilopsis</i>	40	2,75
<i>Serratia marcescens</i>	40	2,75
<i>Acinetobacter baumannii</i>	37	2,55
<i>SARM</i>	18	1,24
<i>Candida glabrata</i>	18	1,24
<i>Klebsiella oxytoca</i>	16	1,10
<i>Proteus mirabilis</i>	16	1,10

<i>Escherichia coli</i>	<b>495</b>	<b>26,04</b>
<i>Pseudomonas aeruginosa</i>	<b>167</b>	<b>8,78</b>
<i>Klebsiella pneumoniae</i>	<b>153</b>	<b>8,05</b>
<i>Staphylococcus aureus</i>	<b>117</b>	<b>6,15</b>
<i>Enterococcus faecalis</i>	<b>97</b>	<b>5,10</b>
<i>Enterococcus faecium</i>	<b>73</b>	<b>3,84</b>
<i>Streptococcus pneumoniae</i>	<b>61</b>	<b>3,21</b>
<i>Serratia marcescens</i>	<b>54</b>	<b>2,84</b>
<i>Staphylococcus epidermidis</i>	<b>53</b>	<b>2,79</b>
<i>Enterobacter cloacae</i>	<b>52</b>	<b>2,74</b>
<i>Candida albicans</i>	<b>48</b>	<b>2,52</b>
<i>Acinetobacter baumannii</i>	<b>47</b>	<b>2,47</b>
<i>Proteus mirabilis</i>	<b>43</b>	<b>2,26</b>
<i>SARM</i>	<b>39</b>	<b>2,05</b>
<i>ECN</i>	<b>32</b>	<b>1,68</b>
<i>Enterobacter aerogenes</i>	<b>29</b>	<b>1,53</b>
<i>Klebsiella oxytoca</i>	<b>25</b>	<b>1,32</b>

**BP (931 Mo)****2015****BSOF (1397 Mo)**

<b>BP</b>	<b>N</b>	<b>%</b>	<b>BSOF</b>	<b>N</b>	<b>%</b>
<i>Staphylococcus epidermidis</i>	204	21,91	<i>Escherichia coli</i>	349	24,98
<i>Klebsiella pneumoniae</i>	77	8,27	<i>Klebsiella pneumoniae</i>	127	9,09
<i>ECN</i>	68	7,30	<i>Pseudomonas aeruginosa</i>	94	6,73
<i>Enterococcus faecalis</i>	68	7,30	<i>Staphylococcus aureus</i>	92	6,59
<i>Candida albicans</i>	51	5,48	<i>Enterococcus faecalis</i>	73	5,23
<i>Staphylococcus aureus</i>	48	5,16	<i>Streptococcus pneumoniae</i>	65	4,65
<i>Escherichia coli</i>	48	5,16	<i>SARM</i>	60	4,29
<i>Pseudomonas aeruginosa</i>	47	5,05	<i>Enterococcus faecium</i>	55	3,94
<i>Enterobacter cloacae</i>	39	4,19	<i>Staphylococcus epidermidis</i>	45	3,22
<i>Enterococcus faecium</i>	36	3,87	<i>Enterobacter cloacae</i>	42	3,01
<i>Staphylococcus otros</i>	30	3,22	<i>Candida albicans</i>	41	2,93
<i>SARM</i>	25	2,69	<i>ECN</i>	23	1,65
<i>Serratia marcescens</i>	19	2,04	<i>Streptococcus pyogenes</i>	21	1,50
<i>Candida parapsilopsis</i>	18	1,93	<i>Bacteroides grupo fragilis</i>	19	1,36
<i>Candida glabrata</i>	16	1,72	<i>Proteus mirabilis</i>	19	1,36
<i>Proteus mirabilis</i>	13	1,40	<i>Candida glabrata</i>	18	1,29

# CARACTERISTICAS PACIENTES CON BACTERIEMIA (2015)

	<b>BC (562)</b>	<b>BOD (789)</b>	<b>BSOF(1802)</b>	<b>p</b>
Edad (años)	61,2	62,6	64,1	*0,08 **0,0001
Varones (%)	65,6	67,5	63,5	*0,3 **0,8
APACHE	20,2	21,4	20,2	*0,03 **0,07
EB (%)				*0,0001 **0,0001
<i>Medico</i>	68,2	81,1	74,4	
<i>C programada</i>	12,7	8,4	7,8	
<i>C urgente</i>	19,1	10,4	17,6	
Trauma (%)	9,7	6,9	3,9	*0,61 **0,0001
Coronario (%)	6,5	5,7	3,5	*0,31 **0,082
ATB 48 h (%)	39,6	38,9	45	*0,80 **0,0001
Cir previa (%)	64,3	77,4	69,4	*0,0001 **0,0001
Estancia (d)	30,9	22,5	17,2	*0,0001 **0,0001
Exitus (%)	25,2	33,9	27,1	*0,004 **0,05

Fecha inicio: **01/1/2015** Fecha final: **30/6/2015**

No Total de Check-List introducidos: **2006** a nivel **NACIONAL**

Lugar de inserción	N	%
Subclavia	645	32,15
Femoral	353	17,60
Basílica	502	25,02
Axilar	12	0,60
Yugular	416	20,74
Otras	78	3,89

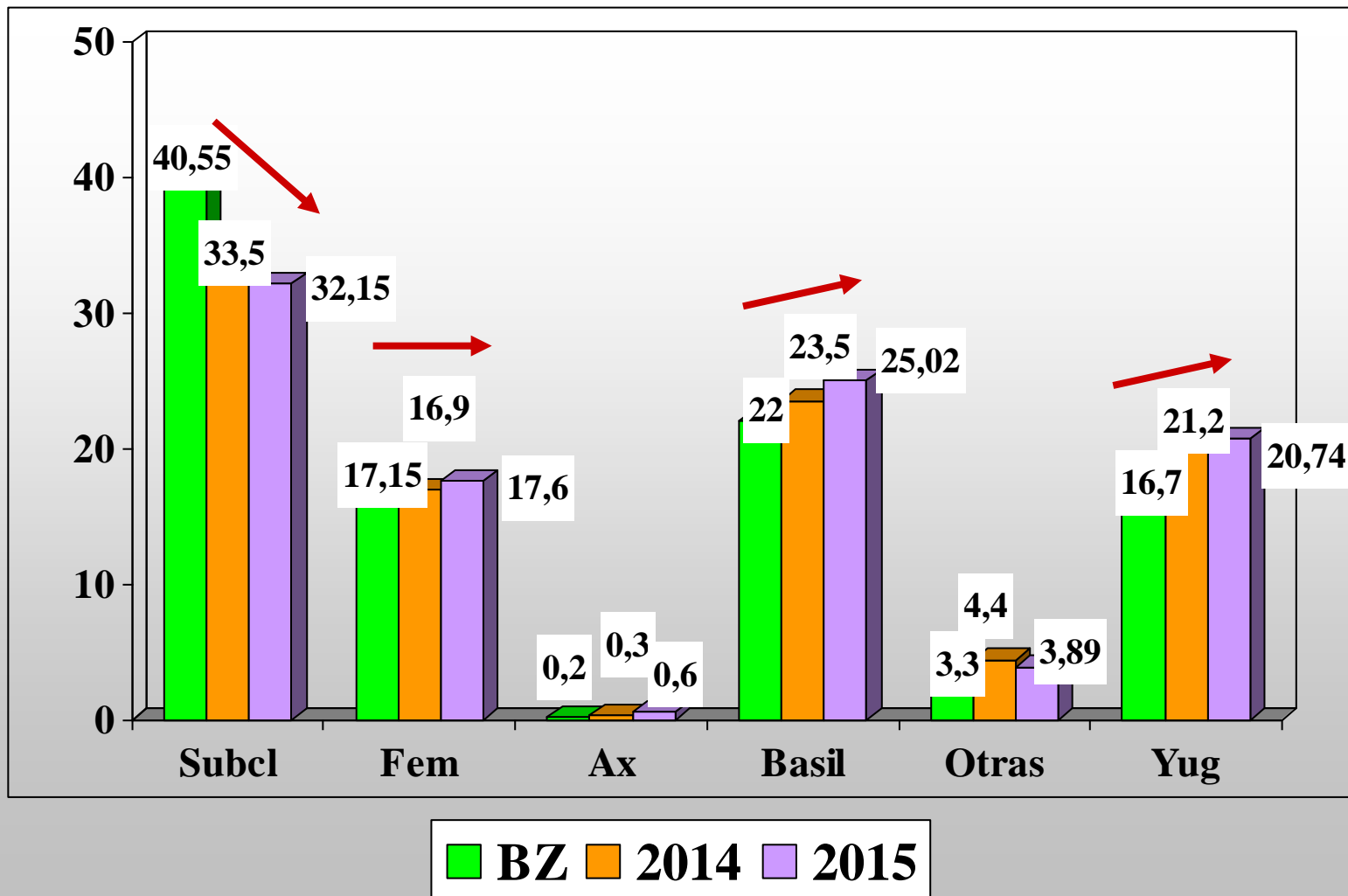
Nivel de Urgencia	Urgente	Electiva
	894 44,57%	1.112 55,43%

Turno	Mañana	Tarde	Noche
	777 38,73%	676 33,70%	553 27,57%

Recambio con guía	Si	No
	67 3,34%	1.939 96,66%



# LUGAR DE INSERCCIÓN

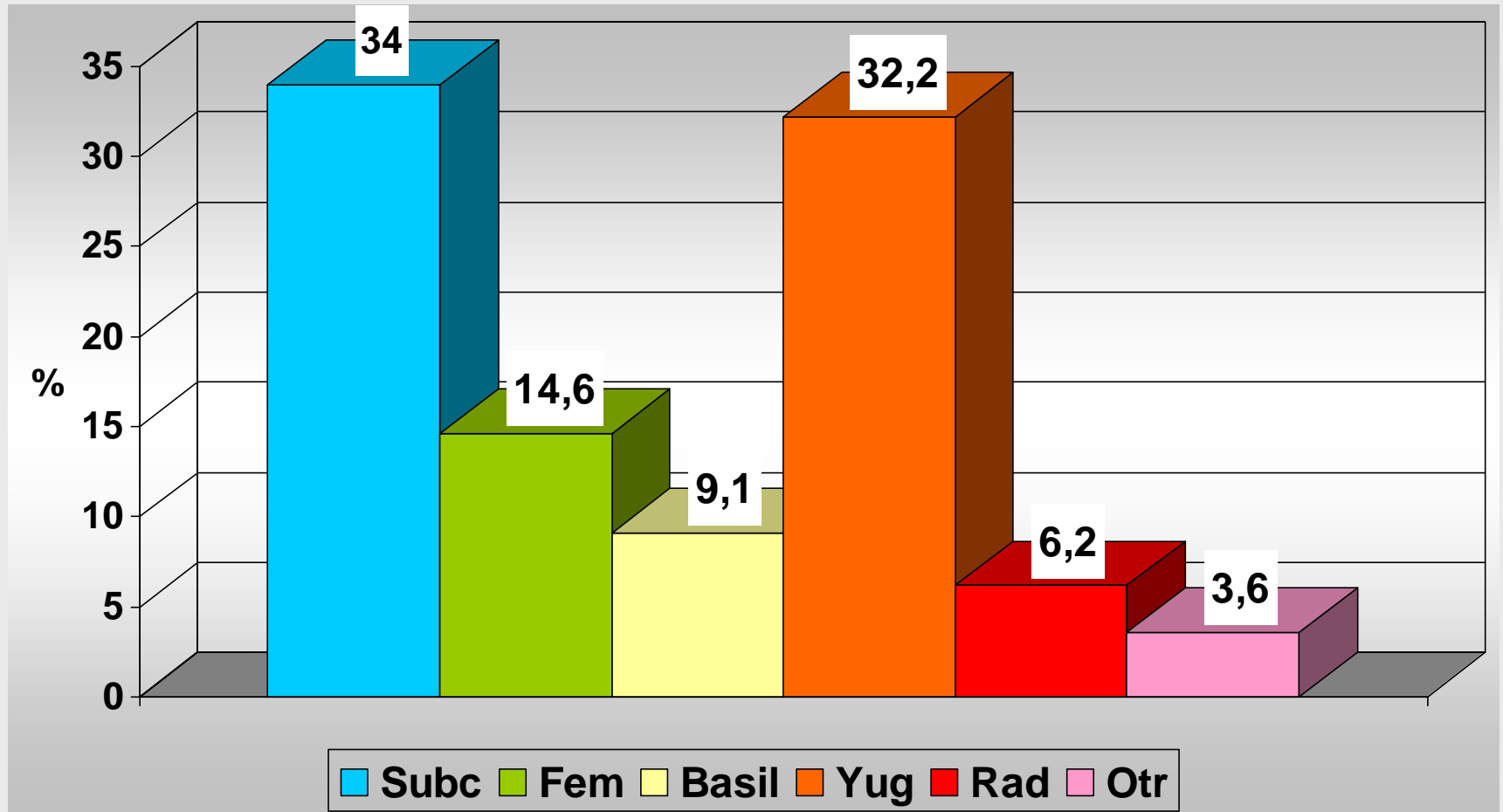


Fecha inicio: 01/1/2009 Fecha final: 30/6/2010

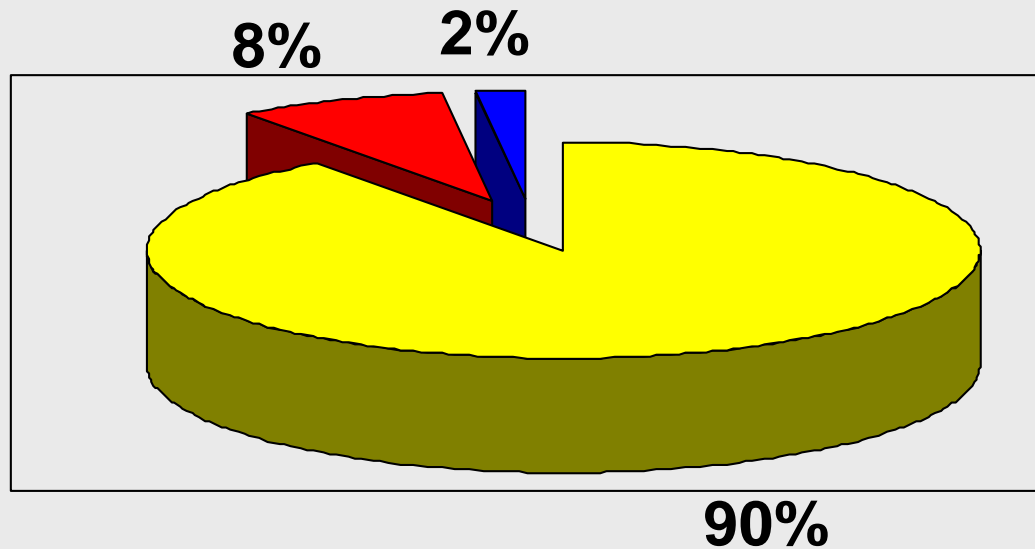
No Total de Check-List introducidos: 32218 a nivel NACIONAL

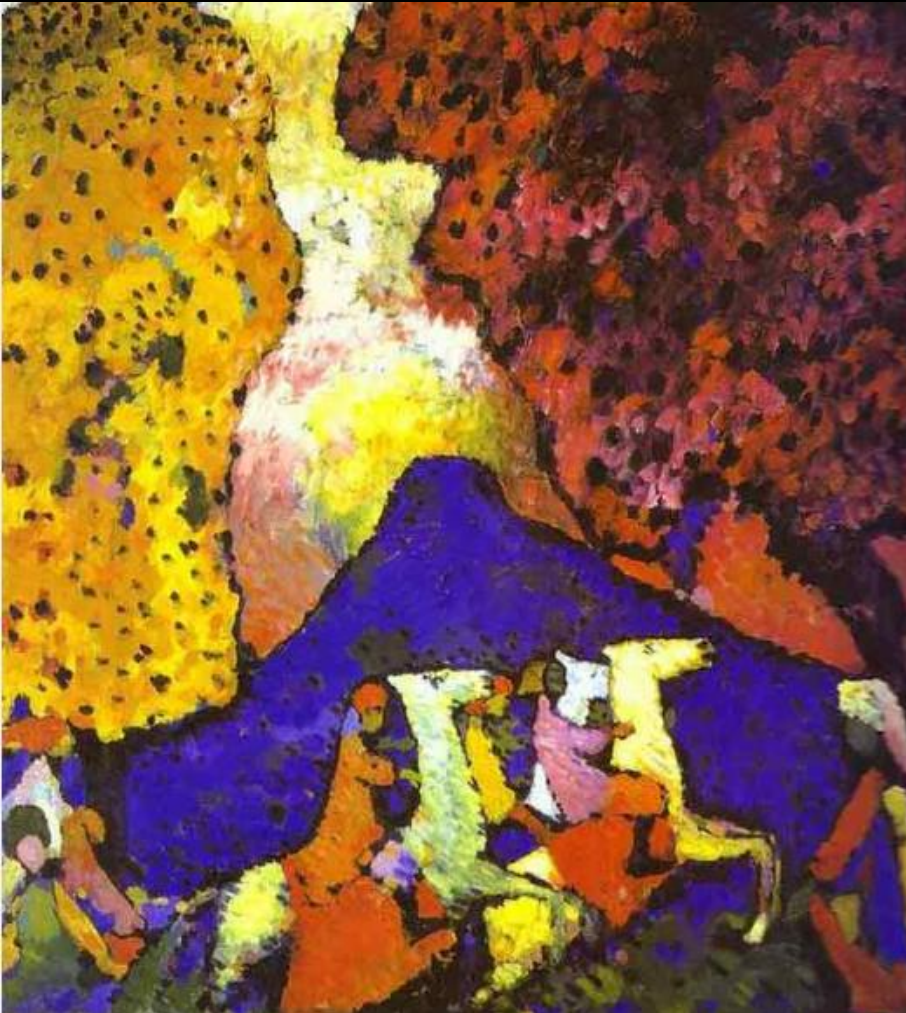
01/01/2014- 30/09/2014 2752 check-list  
01/01/2015-30/06/2015 2006 check-list

# LOCALIZACIÓN BACTERIEMIAS 2015



# TIPO DE CATÉTER ORIGEN BACTERIEMIAS 2015





**Recuperación de UCI participantes (aportando información).**

**Disminución de las tasas en 2015, un 66% respecto a 2008 y un 22% respecto al periodo BZ**

**Reducción de las BSOF, especialmente de origen respiratorio.**

***K pneumonia* sigue aumentando**

**Descenso de uso de localización subclavia con incremento de yugular y basilica**

**Predominio de localización yugular y subclavia en origen BC**

**Escasa documentación de indicadores y check-list a la inserción**